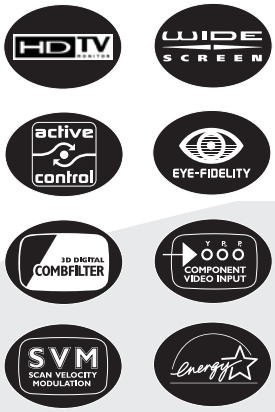
Color TV

Directions for Use



Important! Return your Warranty Registration Card within 10 days. See why inside.

Need help? Call us!

Philips representatives are ready to help you with any questions about your new product. We can guide you through Connections, First-time Setup, or any of the Features. We want you to start enjoying your new product right away!

CALL US BEFORE YOU CONSIDER RETUNING THE PRODUCT.

1-800-531-0039

or

Visit us on the web at www.philips.com

Model No.:_____

Serial No.:_____

Let's make things better.

PHILIPS

3121 235 20991

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your **purchase,** and welcome to the **"family!"**

PHILIPS

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome–and thanks for investing in a PHILIPS product.

Sincerely,

Lawrence J. Blanford

Lawrence J. Blanford
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these **safety** symbols

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡ This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

! The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

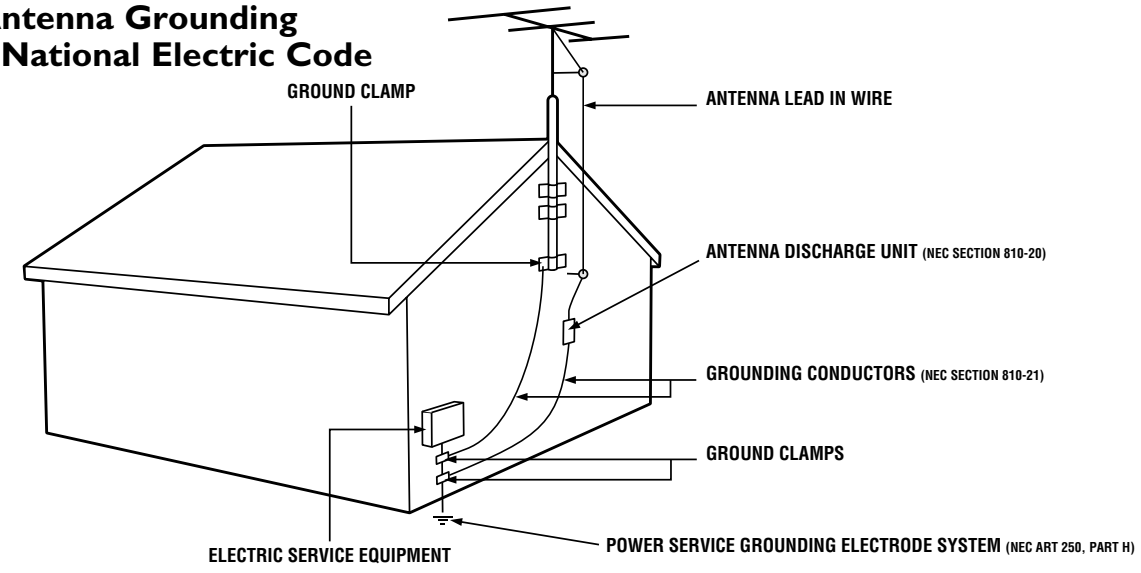
PHILIPS *Visit our World Wide Web Site at http://www.philips.com*

IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    - **A.** The power supply cord or the plug has been damaged; or
    - **B.** Objects have fallen, or liquid has been spilled into the appliance; or
    - **C.** The appliance has been exposed to rain; or
    - **D.** The appliance does not appear to operate normally or exhibits a marked change in performance; or
    - **E.** The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
    • Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
    • Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
    Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
    • Install all batteries correctly, with + and - aligned as marked on the unit.
    • Do not mix batteries (old and new or carbon and alkaline, etc.).
    • Remove batteries when the unit is not used for a long time.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code


GROUND CLAMP
ANTENNA LEAD IN WIRE
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
ELECTRIC SERVICE EQUIPMENT

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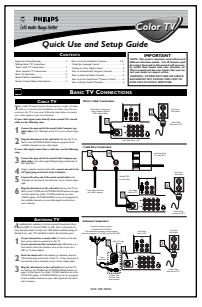
Quick Use and Hookup Guide

Refer to the simple *Quick Use and Setup Guide* (supplied with your TV) for details on the following:

- Basic TV connections
- Advanced TV connections
- Basic TV operation
- Basic Remote Control operation
- Remote Control Button Descriptions



FEATURES

Active Control™ continuously measures and corrects all incoming signals to help provide the best picture quality. This feature monitors and corrects both the sharpness control and noise reduction control.

Audio/Video Jack Panel allows direct connections with VCRs, DVDs, or other devices, providing quality TV picture and sound playback.

Audio Volume Leveler (AVL) Control keeps the TV sound at an even level. Peaks and valleys that occur during program changes or commercial breaks are reduced, making for a more consistent, comfortable sound.

AutoChron™ automatically sets the right time of day and maintains it with digital precision through brownouts, power failures, and even Daylight Savings Time adjustments.

AutoLock™ allows you to block the viewing of certain channels or programs with certain ratings if you do not want your children to view inappropriate materials.

Auto Programming scans (when activated) for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

AutoPicture™ allows you to change the picture settings (color, tint, contrast, etc.) for various types of programming, such as sports, movies, multimedia (games), or weak signals with the push of one button.

AutoSound™ allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls (Voice, Music, and Theatre) enable you to tailor the TV sound so as to enhance the particular programming you are watching.

Channel Edit allows you to add or delete channels from the list stored in the TV's memory. Channel Edit makes it easy to limit or expand the number of channels that are available to you when you press the Channel (+) or (–) buttons on your remote control.

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as onscreen text.

Dynamic Contrast helps to sharpen the picture quality by improving the contrast between the darkest and brightest parts of the picture.

Eye Fidelity (also know as Digital Options) give a choice of two different scanning technics – Progressive Scan or Interlaced. Progressive Scan doubles the number of visible lines per field by displaying all picture frame lines at once, eliminating any picture flicker. The Interlaced mode provides a double vertical display scan, which reduces annoying motion sweeps. The Interlaced mode will also smooth out the jagged lines sometimes seen on the edges of curved or angled surfaces.

Infrared Remote Control works your TV and other remote-controlled devices, such as VCRs, DVD players, cable converters, and satellite receivers.

Onscreen Menu shows helpful messages and instructions for setting TV feature controls (can be viewed in English, French, or Spanish).

Sleep Timer automatically turns the TV OFF after a set amount of time that you choose.

Standard Broadcast (VHF/UHF) or Cable TV (CATV) channel capability allows for viewing by antenna or cable.

Stereo capability, including a built-in audio amplifier and twin-speaker system, allows for the reception of TV programs broadcast in stereo sound.

Surf Button allows you to easily switch among only the channels that are of interest to you (the ones that you have programmed into the TV's Surf control through the onscreen menu).

Timer allows you to set your TV to turn itself ON and OFF once or daily like an alarm clock.

Items Included with This TV

As you unpack your TV, please note that this *Directions for Use* manual contains safety-tip information and Factory Service Center locations, as well as a Warranty Registration Card, remote control, and batteries for use with the remote control.

Please take a few minutes to complete your registration card. The serial number for the TV is on the rear of the set.

Refer to the back of this manual for instructions in the cleaning and care of the TV.

END-OF-LIFE DISPOSAL

Your new television and its packing contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts that need to be properly disposed.

Your product also uses batteries that should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

When you replace your existing equipment, please find out about the local regulations regarding disposal of your old television, batteries, and packing materials.

As an Energy Star® Partner, Philips Consumer Electronics has determined this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.

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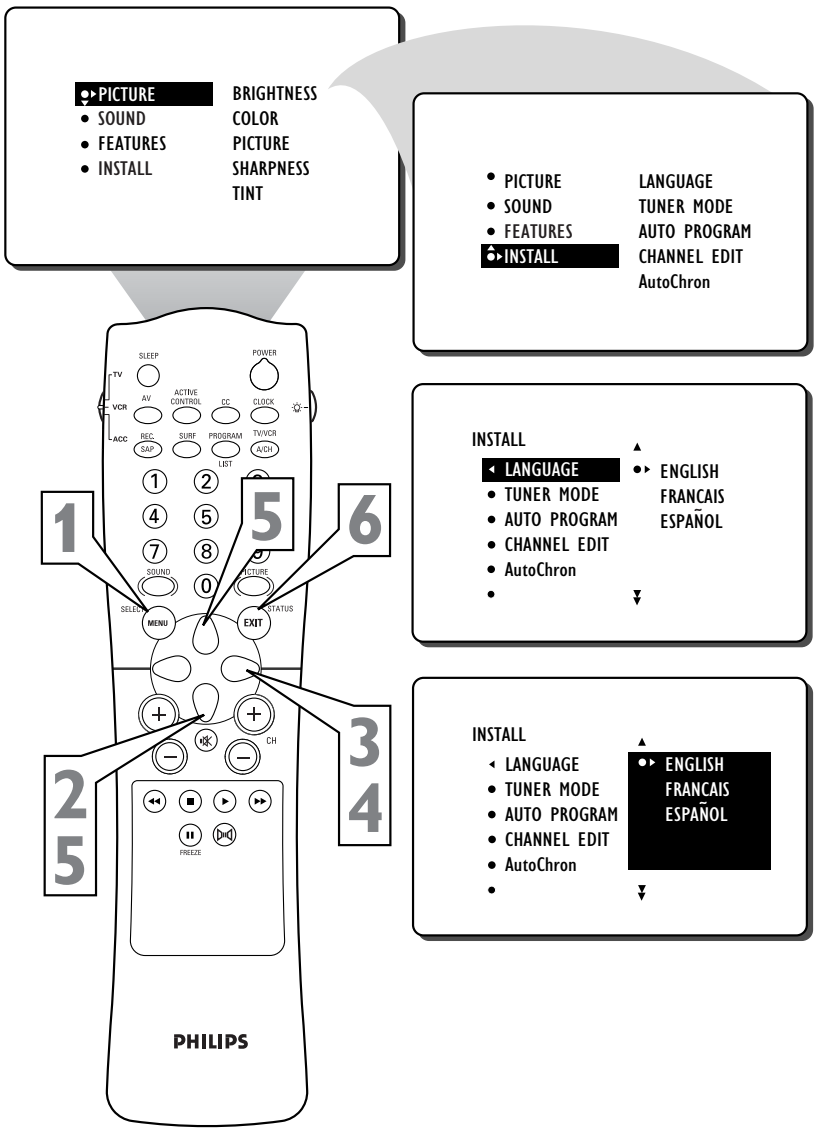
How to Use the Language Control

For or Spanish and French-speaking TV owners, an onscreen LANGUAGE option is present. The LANGUAGE control enables you to set the TV's onscreen menu to be shown in either English, Spanish, or French.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left and highlight LANGUAGE.
4. **Press the CURSOR RIGHT button** to highlight the LANGUAGE control options.
5. **Press the CURSOR UP or CURSOR DOWN button** to select ENGLISH, ESPANOL (Spanish), or FRANCAIS (French).
6. **Press the STATUS/EXIT button** to clear the menu from the screen.



Helpful Hint

Remember, the LANGUAGE control makes only the TV's onscreen MENU items appear in English, Spanish, or French text. It does not change the other onscreen text features, such as Closed Captioning (CC), with TV shows.

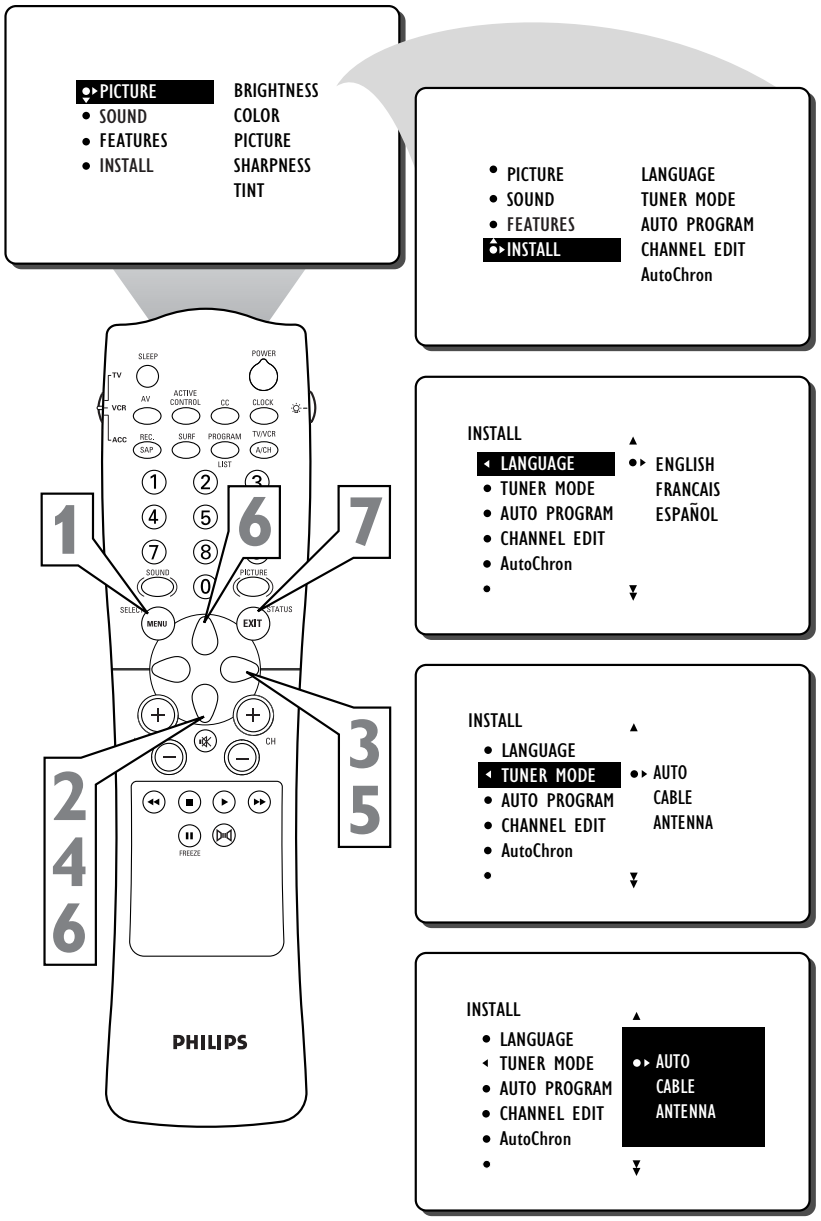
How to Use the Tuner Mode Control

The TUNER MODE feature allows you to change the TV's signal input to CABLE, ANTENNA, or AUTO mode. It's important for the TV to know if you want to receive channels from a cable TV signal or a normal antenna signal.

***NOTE:** The AUTO mode setting helps the TV determine the type of signal or channels being received when AUTO PROGRAM is activated.*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left.
4. **Press the CURSOR DOWN button** once to highlight TUNER.
5. **Press the CURSOR RIGHT button** to highlight the TUNER MODE options.
6. With the TUNER MODE control set to AUTO, the Auto Program control will detect whether or not cable input is present. (See the Auto Program section on the next page.)

   If, however, you want to set the TUNER MODE to CABLE or ANTENNA, **press the CURSOR UP or CURSOR DOWN button** until either CABLE or ANTENNA is highlighted.
7. **Press the STATUS/EXIT button** to clear the menu from the screen.



Helpful Hint

When CABLE is selected, channels 1–125 are available.

When ANTENNA is selected, channels 2–69 are available.

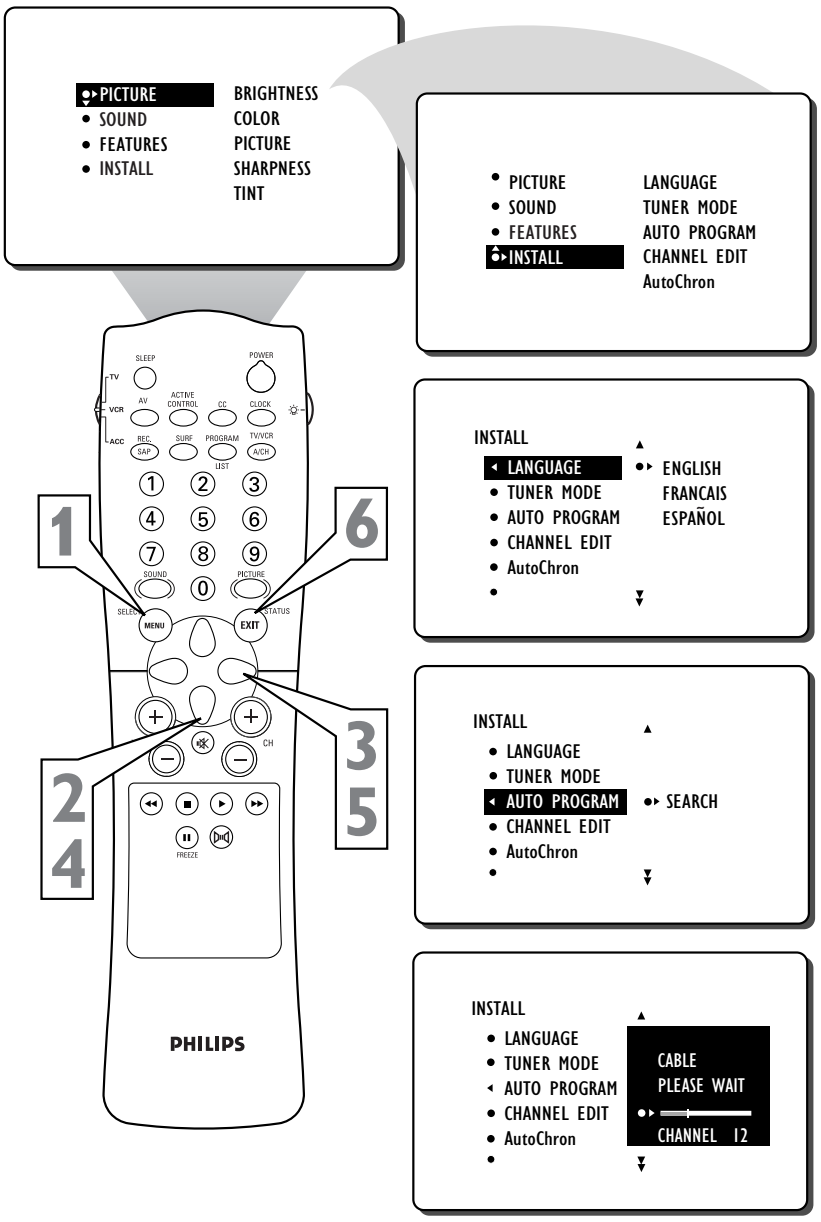
How to Automatically Program Channels

Your TV can automatically set itself for local area (or cable TV) channels. This makes it easy for you to select only the TV stations in your area by pressing the CHANNEL (+) or (–) button.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.
4. **Press the CURSOR DOWN button** repeatedly until the AUTO PROGRAM control is highlighted.
5. **Press the CURSOR RIGHT button** to start the Auto Program scanning of channels.
6. **Press the STATUS/EXIT button** to clear the menu from the screen.

Helpful Hint

After you've run Auto Program, check out the results. Press the CHANNEL (+) or (–) button and see which channels you can select.
Remember, an antenna or cable TV signal must first be connected to your TV.



How to Add or Delete Channels

CHANNEL EDIT makes it easy for you to add or delete channels from the list of channels stored in the TV's memory.

1 **Press the MENU button** on the remote control to show the onscreen menu.

2 **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.

3 **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.

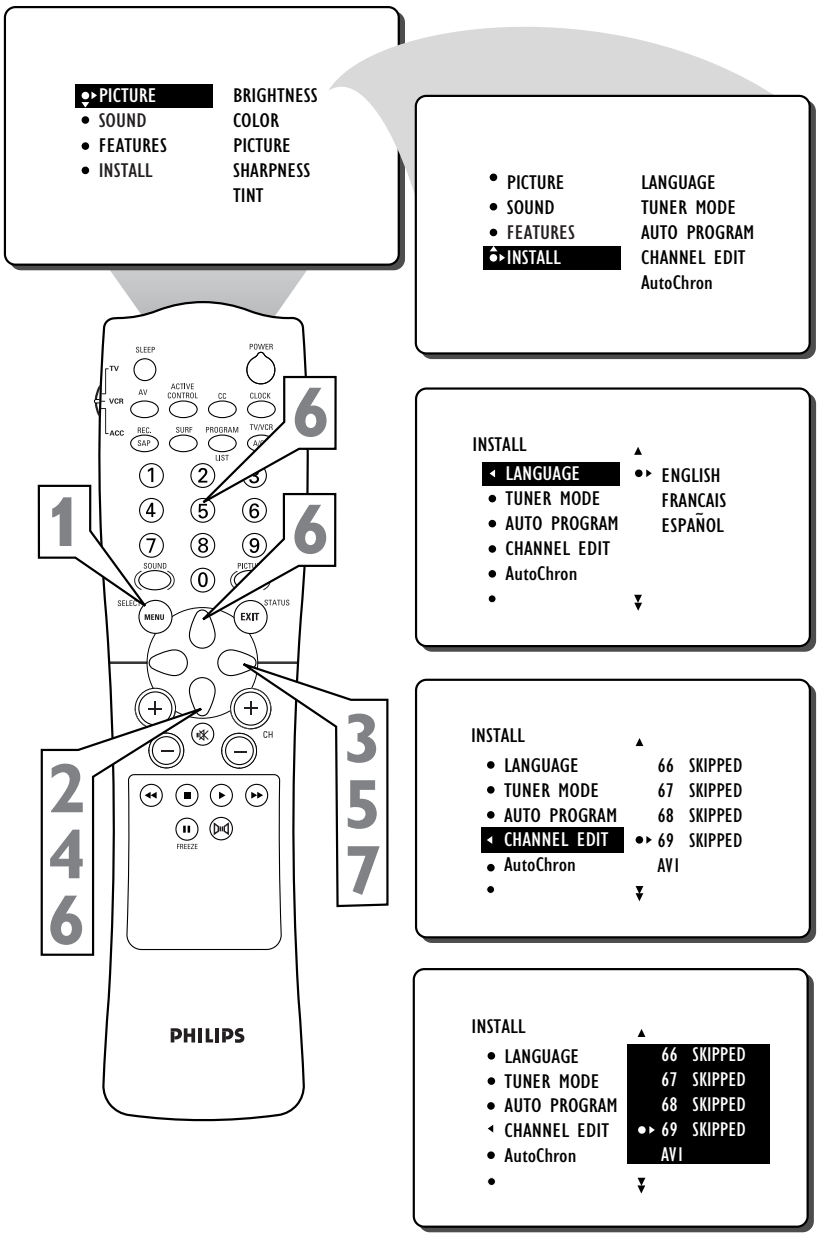
4 **Press the CURSOR DOWN button** repeatedly until the CHANNEL EDIT control is highlighted.

5 **Press the CURSOR RIGHT button** to access the CHANNEL EDIT menu.

6 **Press the CURSOR UP or CURSOR DOWN button** to scroll through the list of available channels. Or press the number buttons on your remote control to select a specific channel (for example, press *0* and then *2* to select channel 2).

7 With the channel you want to edit selected, **press the CURSOR RIGHT button** to mark the channel as SKIPPED. The channel you've marked SKIPPED will not appear when you are changing from channel to channel while watching TV.

NOTE: When you want to add a channel that has been marked SKIPPED, **press the CURSOR UP or CURSOR DOWN button** to highlight the channel; then **press the CURSOR RIGHT button** to remove the word SKIPPED.



Helpful Hint

The channels available for you to edit are the ones that the AUTO PROGRAM feature found while performing a search of your TV antenna or cable TV signals. Channels not found during the search are marked SKIPPED.

How to Use the Name Control (Channel Label)

The channel NAME feature allows you to list the "call" letters of your favorite stations beside their channel numbers when they appear on the screen. The TV has in memory a list of the 50 most popular channel names (for example, ABC, NBC, FOX, etc.). You also can enter a custom name (up to five characters).

1 **Press the MENU button** on the remote control to show the onscreen menu.

2 **Press the CURSOR DOWN button** repeatedly until INSTALL in highlighted.

3 **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.

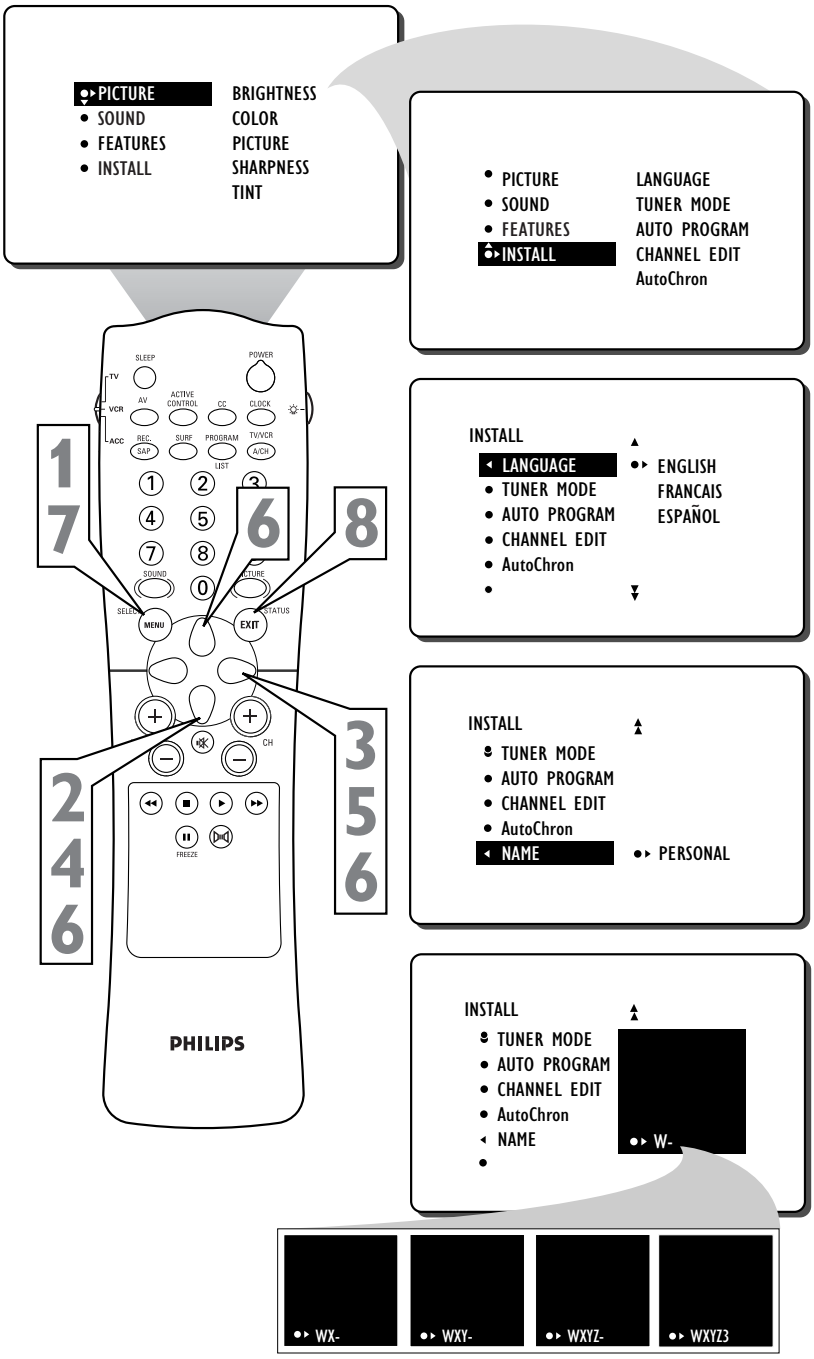
4 **Press the CURSOR DOWN button** repeatedly until the NAME control is highlighted.

5 **Press the CURSOR RIGHT button** to highlight the NAME options area.

6 **Press the CURSOR UP or DOWN button** to scroll the list of names, or **press the CURSOR RIGHT button** to enter a personal name. **Press the CURSOR UP or CURSOR DOWN button** to scroll through a list of options for the first character (A through Z, 0 through 9). **Press the CURSOR RIGHT button** and repeat for the second, third, fourth, and fifth characters.

7 After you have selected a name for the channel, **press the MENU button** to save the name in the TV's memory.

8 **Press the STATUS/EXIT button** to clear the menu from the screen.



Helpful Hint

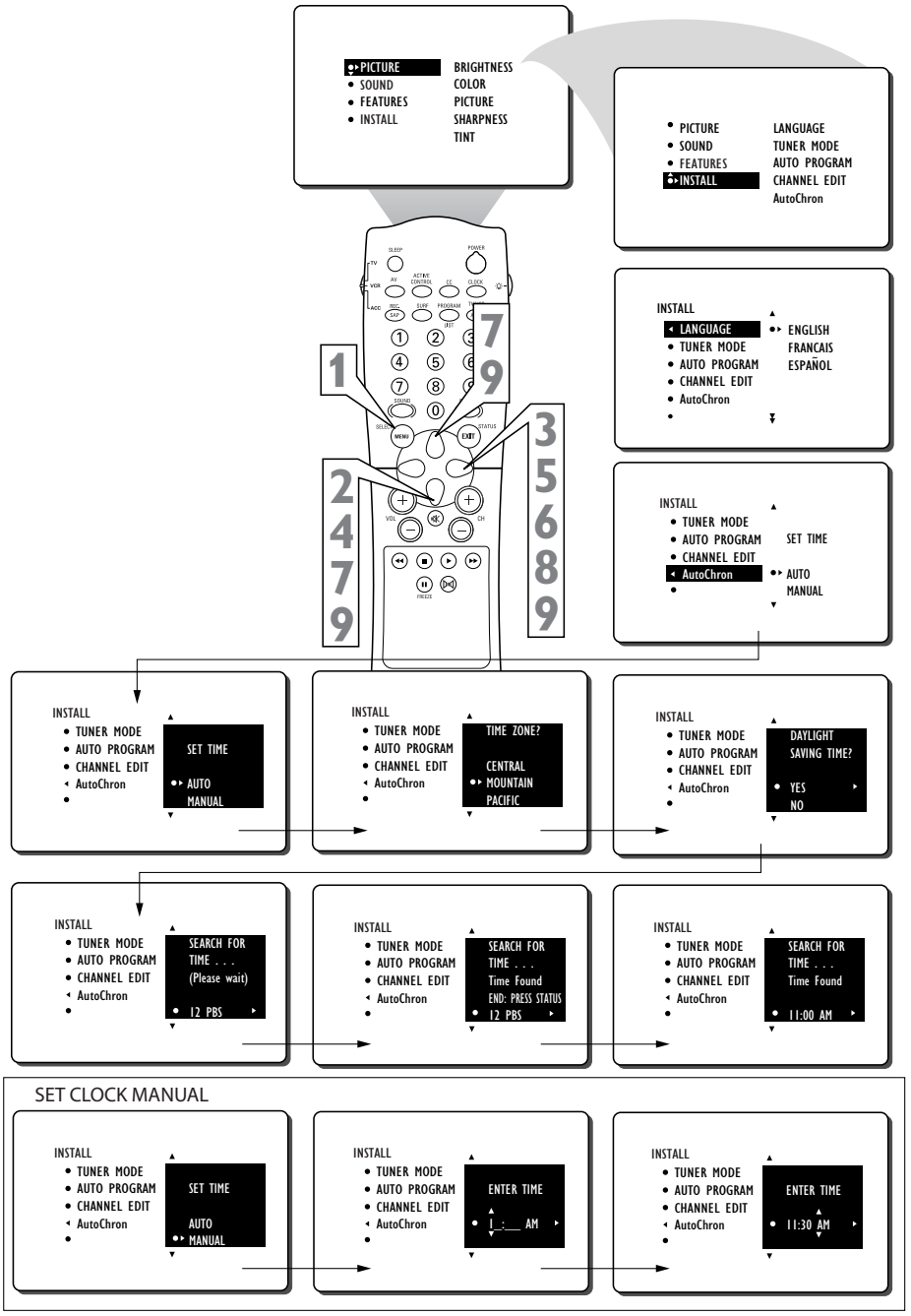
The five characters that the channel NAME feature allows you to input can be letters, a dash character, or the numbers 0 through 9.

How to Set the Clock with AutoChron™

AutoChron™ can automatically set the TV's onscreen clock. Because the time is received from a broadcast signal, you must be sure that a cable TV or antenna signal is present before you attempt to use the AutoChron™ feature.

1. **Press the MENU button** on the remote to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.
4. **Press the CURSOR DOWN button** until the AutoChron control is highlighted.
5. **Press the CURSOR RIGHT button** to start the AutoChron™ feature. Then just follow the onscreen instructions to set the clock.
6. **Press the CURSOR RIGHT button** to select AUTO. Within a few seconds, a menu for choosing your time zone will appear.
7. **Press the CURSOR UP or CURSOR DOWN button** to highlight your correct time zone.
8. **With your correct time zone highlighted, press the CURSOR RIGHT button.** Within a few seconds, you will be given the option to choose whether you want to select Daylight Savings Time.
9. **Press the CURSOR UP or CURSOR DOWN button** to navigate through the YES and NO selection list; then **with the item you want to select highlighted, press the CURSOR RIGHT button.** Follow the onscreen instructions (shown below) to set the AutoChron™ time either automatically or manually.

Note: When turned ON, the AutoChron™ feature can affect the start up of your television. When the power button is press and the AutoChron™ feature is set to the AUTO position, the TV will scan the channels for a PBS channel to set the clock automatically. It may take SEVERAL seconds before the TV powers itself ON.



ADJUSTING THE PICTURE CONTROLS

To adjust your TV picture controls, select a channel and follow these steps.

1 **Press the MENU button** on the remote control to show the onscreen menu. PICTURE will be highlighted.

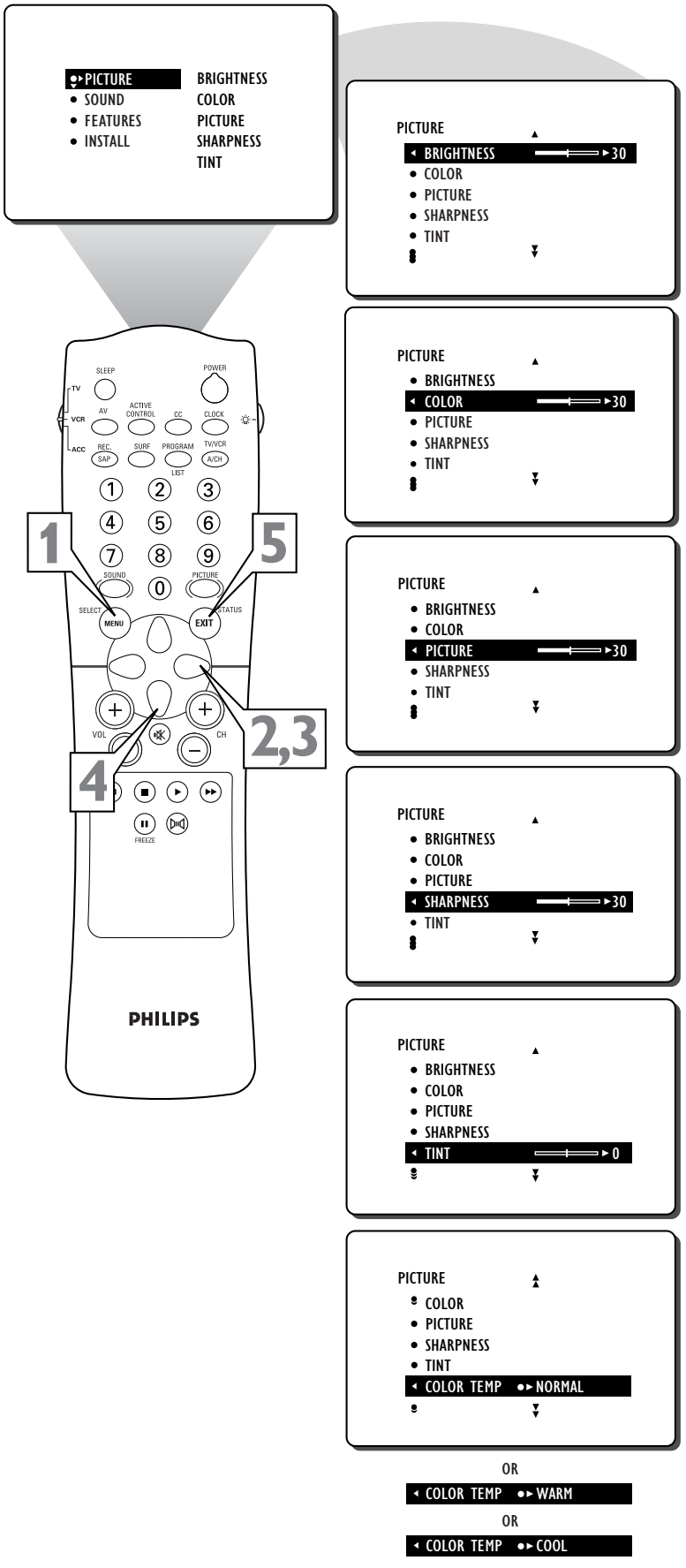
2 **Press the CURSOR RIGHT button** and the menu will shift to the left. BRIGHTNESS will be highlighted and an adjustment bar will be shown to the right.

3 **Use the CURSOR LEFT or CURSOR RIGHT button** to adjust the BRIGHTNESS level of the picture.

4 After adjusting the BRIGHTNESS control, **press the CURSOR DOWN button** to select another picture adjustment: COLOR, PICTURE, SHARPNESS, TINT, OR COLOR TEMP. **Press the CURSOR LEFT or CURSOR RIGHT button** to adjust the selected control.

NOTE: The menu will show only five items at a time, so you will need to continue scrolling with the CURSOR DOWN button to adjust the TINT and COLOR TEMP.

5 **Press the STATUS/EXIT button** to remove the menu from the screen.



HELPFUL HINT

Remember, when the bar scale is centered , the control settings are at normal, mid-range levels. Picture adjustments are described here.

NOTE: The SHARPNESS and TINT Controls will not be available for adjustments when tuned to the AV4 Inputs (AV4 Channel) and CVI Inputs (CVI Channel).

BRIGHTNESS – adds or subtracts light from the darkest part of the picture.

COLOR – adds or eliminates color.

PICTURE – improves the detail of the lightest parts of the picture.

SHARPNESS – improves the detail in the picture.

TINT – adjusts the picture to obtain natural skin tones.

COLOR TEMP offers NORMAL, COOL, or WARM picture preferences.

NORMAL – keeps whites, white.

COOL – makes whites, bluish.

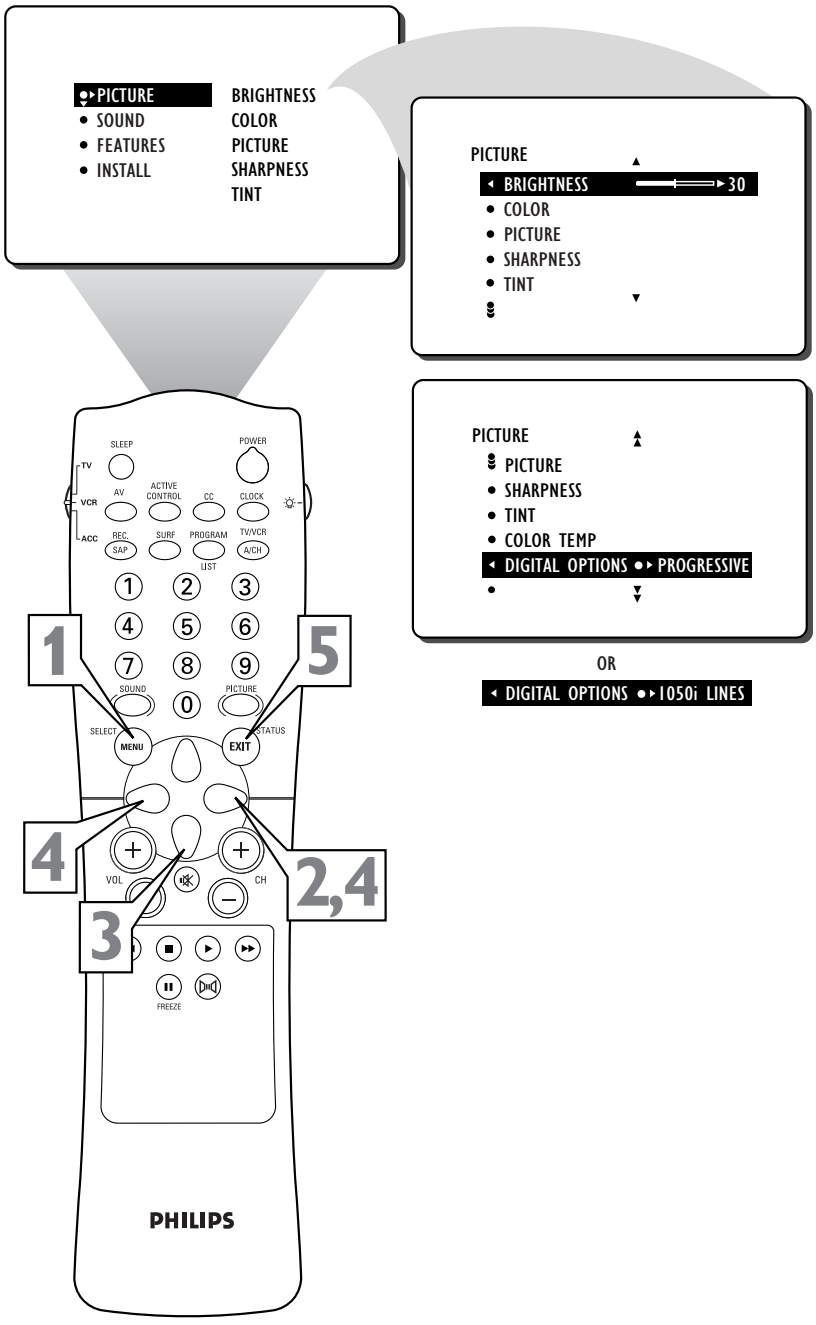
WARM – makes whites, reddish.

How to Use the Digital Options Control

The Digital Options (Eye Fidelity) control gives you a choice between two different picture scanning modes: Progressive Scan and Interlaced (1050i). Digital Options are only available in 4:3 and Widescreen Picture Format.

Progressive Scan doubles the number of picture lines, eliminating line flicker and providing a jitter-free picture.

Interlaced (1050i mode) improves the appearance of onscreen motion. All 'Picture Adjustment Controls' stay controllable, including the Active Control. It also helps smooth out jagged lines that are sometimes seen on curved and angled surfaces in the picture.



1 **Press the MENU button** on the remote to show the onscreen menu. PICTURE will be highlighted.

2 **Press the CURSOR RIGHT button** and the menu will shift to the left. BRIGHTNESS will be highlighted and an adjustment bar will be shown to the right.

3 **Press the CURSOR DOWN button** repeatedly until the Digital Options control is highlighted.

4 **Press the CURSOR RIGHT or LEFT button** until you select the option you want, either PROGRESSIVE or 1050i.

5 **Press the STATUS/EXIT button** to remove the menu from the screen.

Helpful Hint

The Digital Options (Eye Fidelity) Control is not available for use with the AV 4 input jacks.

How to Set the Dynamic Contrast Control

The Dynamic Contrast control allows you to sharpen the picture quality by making dark portions of the picture darker and light portions of the picture more noticeable. Normally, you will probably want to select MED. In certain circumstances, however, you may prefer MIN or MAX.

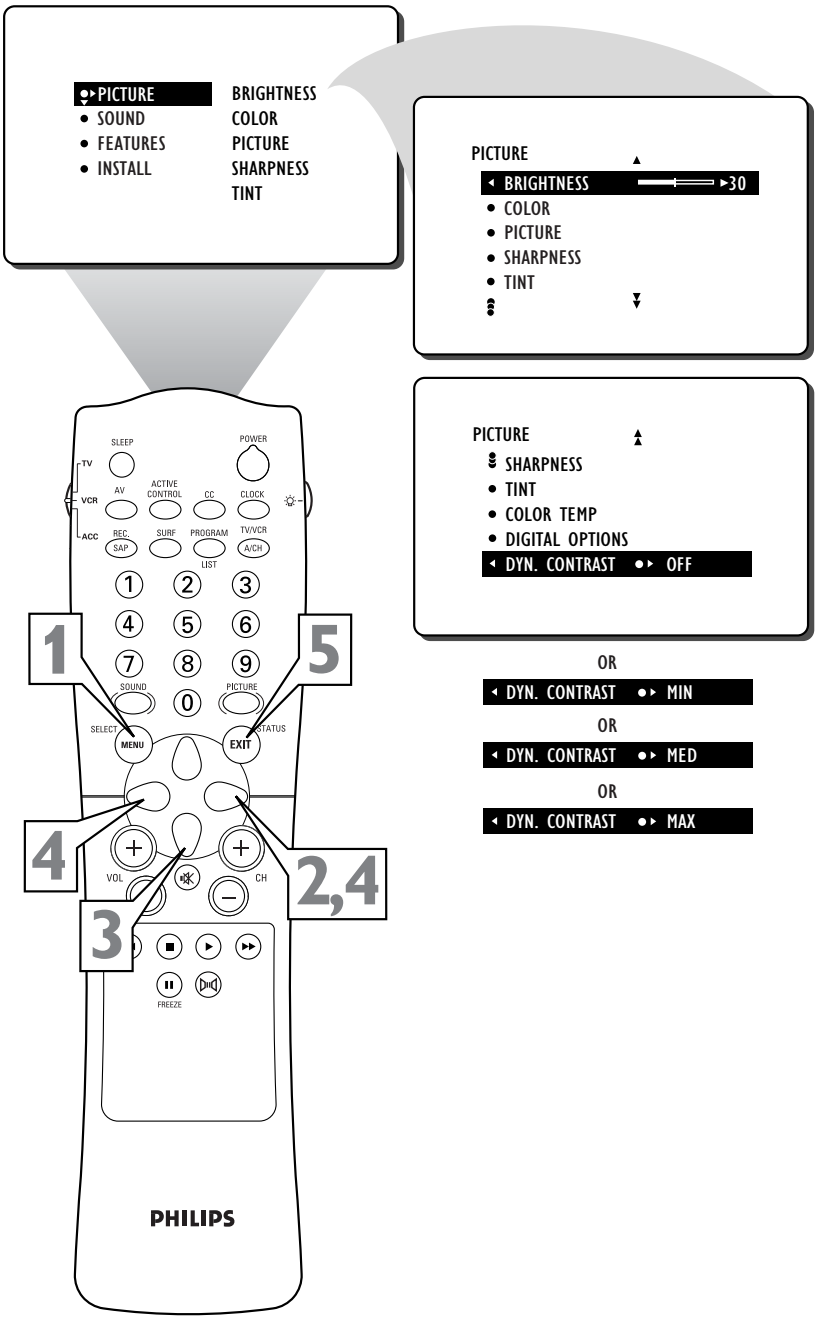
1 **Press the MENU button** on the remote to show the onscreen menu. PICTURE will be highlighted.

2 **Press the CURSOR RIGHT button** and the menu will shift to the left. BRIGHTNESS will be highlighted and an adjustment bar will be shown to the right.

3 **Press the CURSOR DOWN button** repeatedly until the DYN. CONTRAST control is highlighted.

4 **Press the CURSOR RIGHT or LEFT button** until you select the option you want, either OFF, MIN, MED, or MAX.

5 **Press the STATUS/EXIT button** to remove the menu from the screen.



Helpful Hint

The Dynamic Contrast control is not available for use with the AV 4 Inputs (AV4 Channel).

ADJUSTING THE TREBLE, BASS, AND BALANCE CONTROLS

Besides the normal volume level control, your TV also has individual sound-adjustment controls. The TREBLE (high frequency), BASS (low frequency), and Speaker BALANCE may all be used to adjust the sound playback of TV programs.

1 **Press the MENU button** on the remote control to show the onscreen menu.

2 **Press the CURSOR DOWN button** once to highlight SOUND.

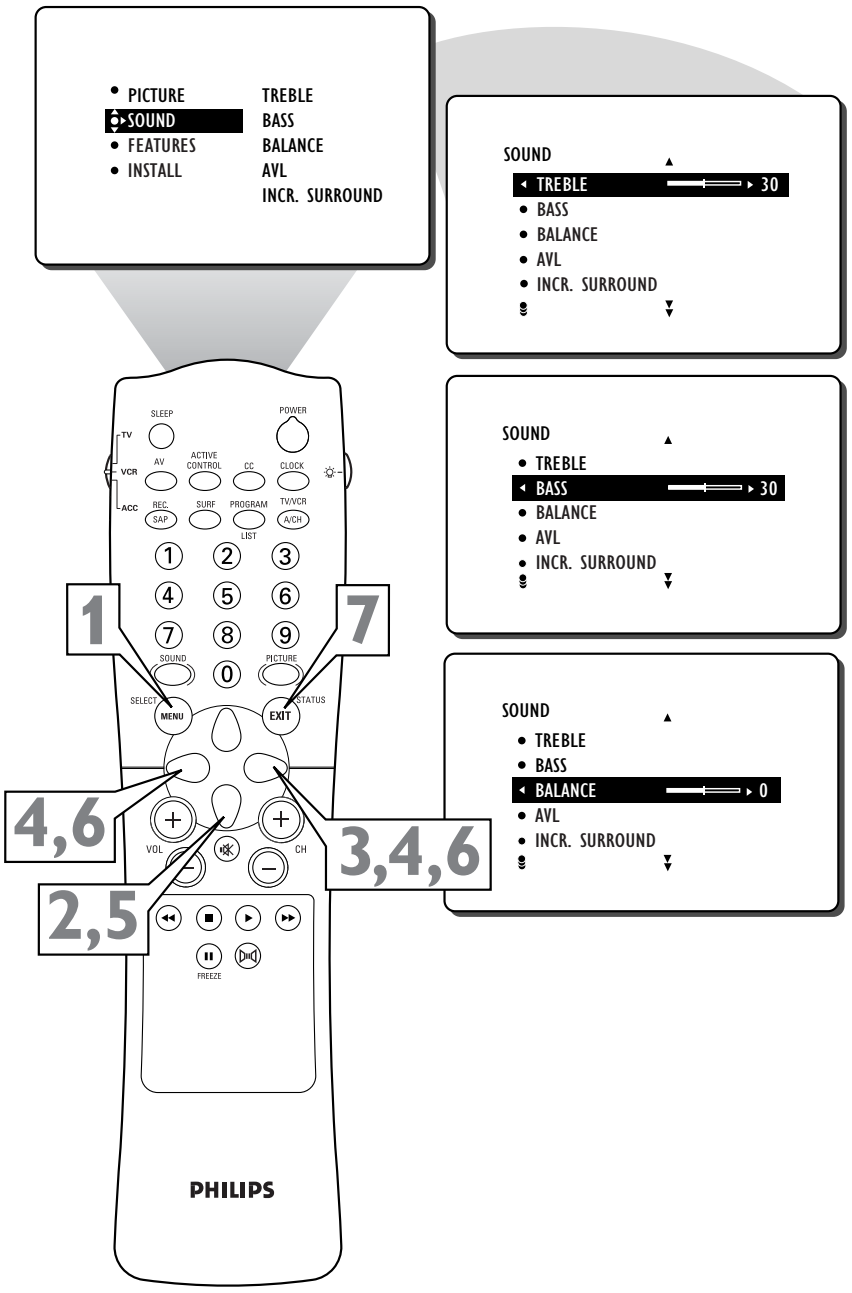
3 **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.

4 **Use the CURSOR RIGHT or CURSOR LEFT button** to adjust the TREBLE (high frequency) level of the television's sound.

5 After adjusting the TREBLE control, **press the CURSOR DOWN button** to select another sound adjustment: BASS or BALANCE.

6 **Press the CURSOR RIGHT or CURSOR LEFT button** to adjust the selected control.

7 **Press the STATUS/EXIT button** to remove the menu from the screen.



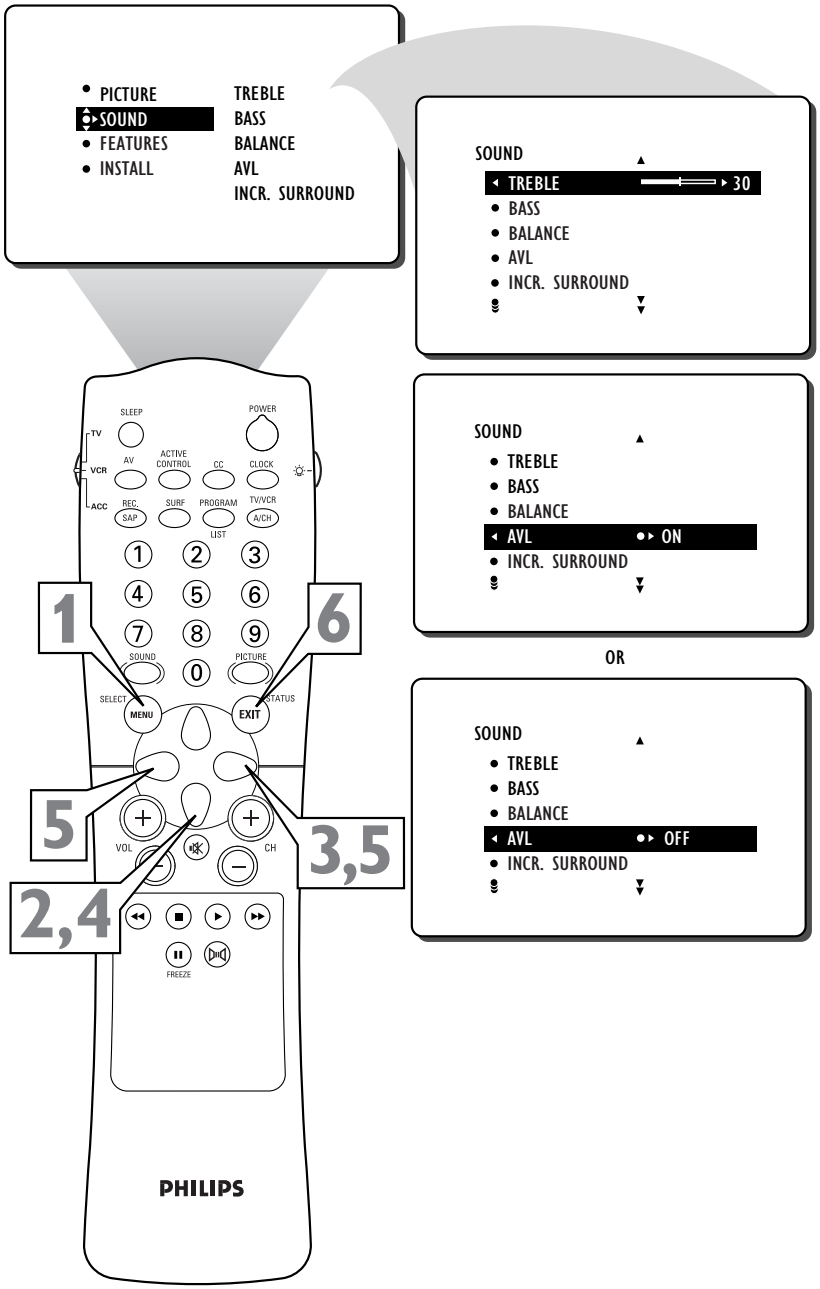
HELPFUL HINT

Remember, when the bar scale is centered, speaker BALANCE is centered between the TV's left and right side speakers.

How to Use the AVL Control

In most cases, the volume levels coming from broadcast programming or commercials are never the same. With the AVL (Audio Volume Leveler) control turned ON, you can have the TV level out sound that is being heard. This makes for a more consistent sound by reducing the peaks and valleys that occur during program changes or commercial breaks. To turn the AVL ON, follow these steps.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN button** repeatedly until AVL is highlighted.
5. **Press the CURSOR RIGHT or CURSOR LEFT button** to toggle AVL ON or OFF.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.



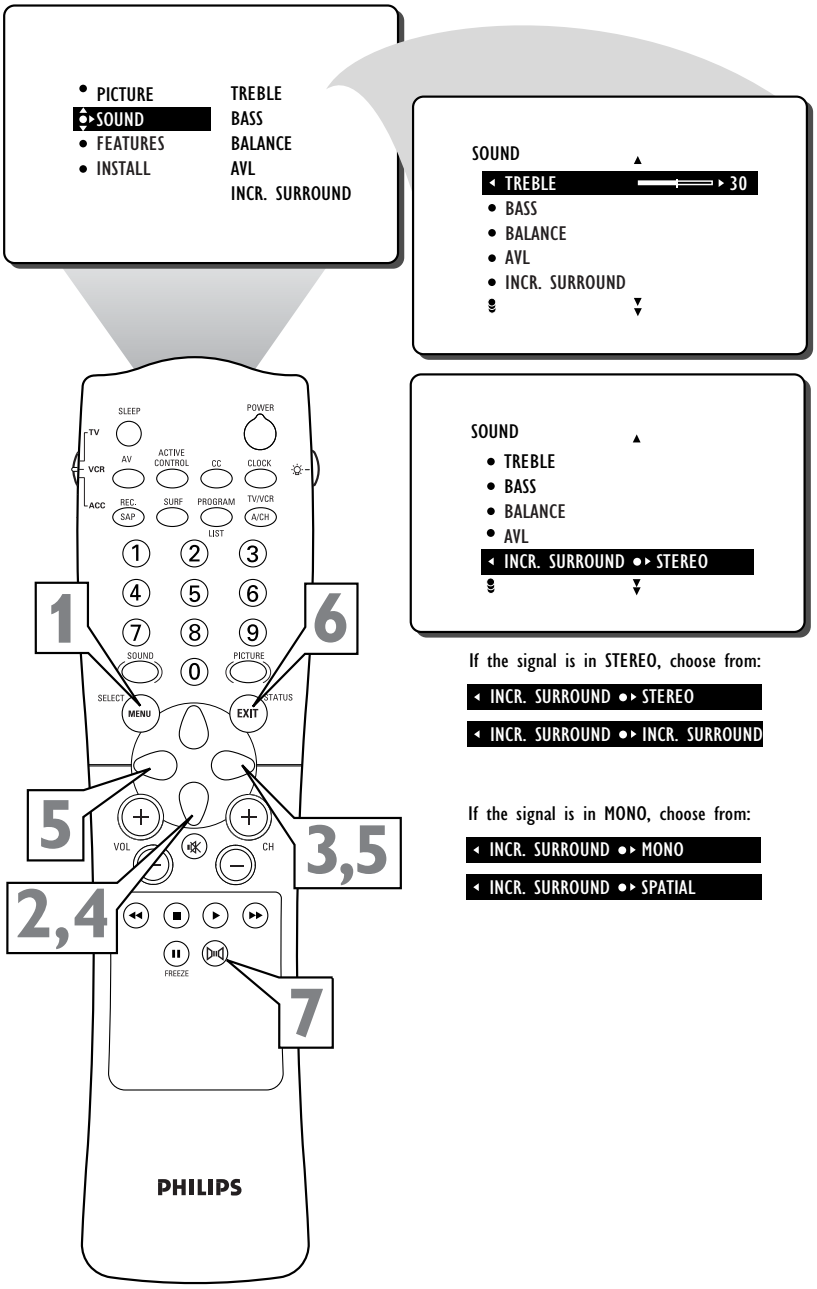
How to Use the Incredible Surround Control

The Incredible Surround feature adds greater depth and dimension to both monaural (MONO) and stereo TV sound. With the control set to INCR. SURROUND (Incredible Surround), the TV's speakers can add even wider sound separation to normal broadcasts.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN button** repeatedly until INCR. SURROUND is highlighted.
5. **Press the CURSOR RIGHT or CURSOR LEFT button** to toggle the INCR. SURROUND control settings.

   If signal is Stereo: Select STEREO, or INCR. SURROUND.

   If signal is MONO: Select MONO, or SPATIAL.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.
7. You can also change the INCR. SURROUND onscreen menu control settings by **pressing the INCREDIBLE SURROUND button** on the remote control.



If the signal is in STEREO, choose from:

- INCR. SURROUND STEREO
- INCR. SURROUND INCR. SURROUND

If the signal is in MONO, choose from:

- INCR. SURROUND MONO
- INCR. SURROUND SPATIAL

Helpful Hint

SPATIAL – widens the Mono sound, simulating a broader, fuller sound.

INCR. SURROUND – widens the Stereo sound, simulating a broader, fuller sound.

How to Set the Stereo Control

You can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.

1 **Press the MENU button** on the remote control to show the onscreen menu.

2 **Press the CURSOR DOWN button** once to highlight SOUND.

3 **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.

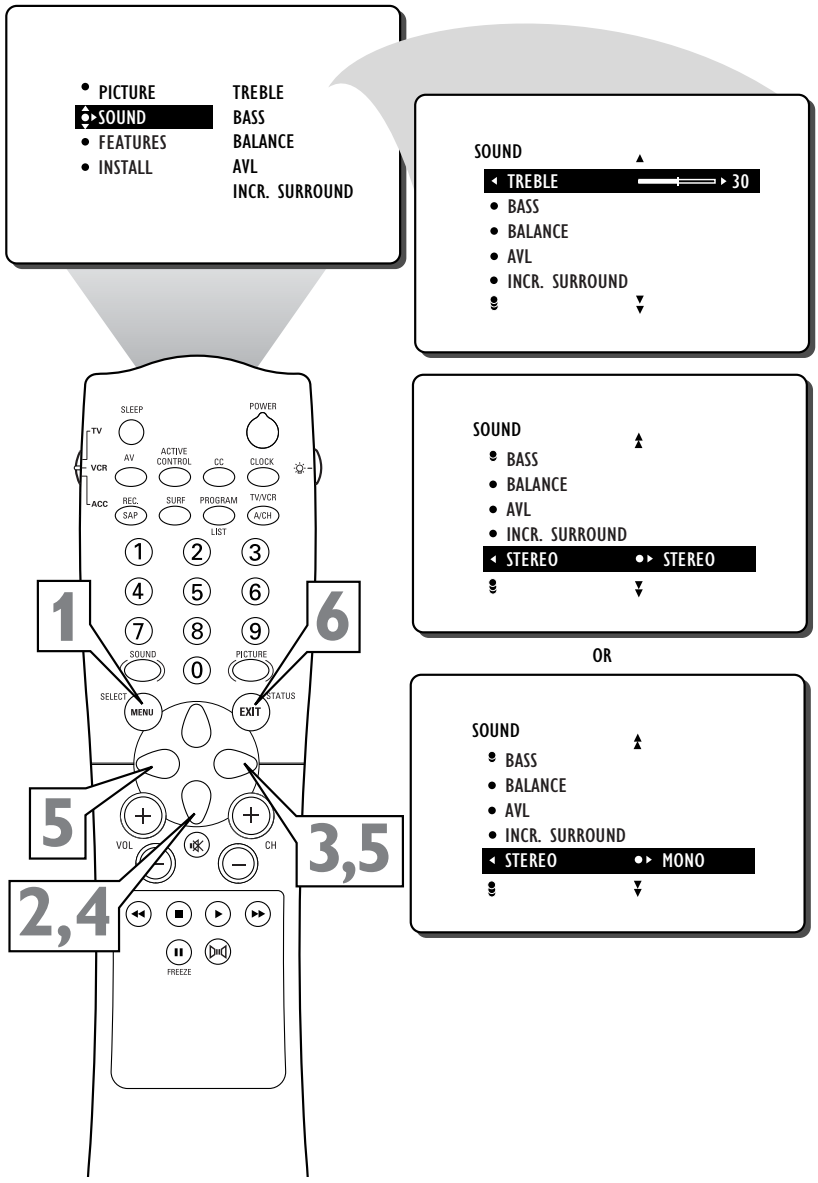
4 **Press the CURSOR DOWN button** repeatedly until STEREO is highlighted.

5 **Press the CURSOR RIGHT or CURSOR LEFT button** to select STEREO or MONO.

6 **Press the STATUS/EXIT button** to remove the menu from the screen.

Helpful Hint

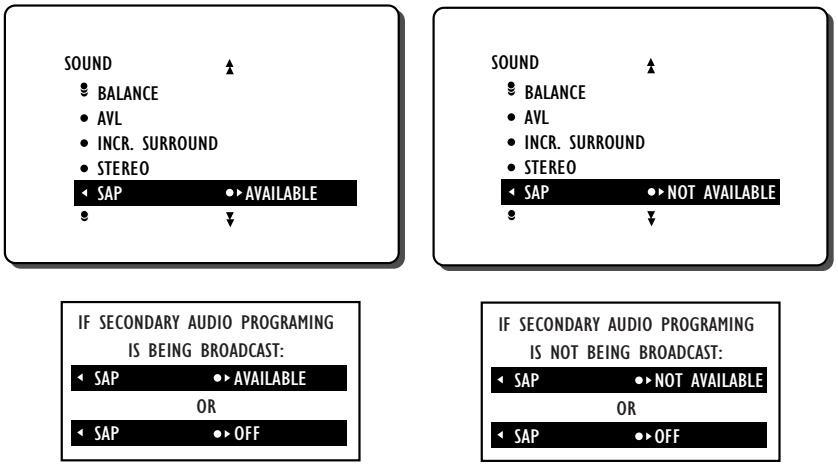
Remember, if stereo is not present on a selected show and the TV is placed in the STEREO mode, the sound coming from the set will remain monaural.



SAP-Secondary Audio Program

An SAP is an additional part of the stereo broadcast system. Sent as a third audio channel, an SAP can be heard seperate from the current TV program sound. TV stations are free to use SAP for any number of purposes.

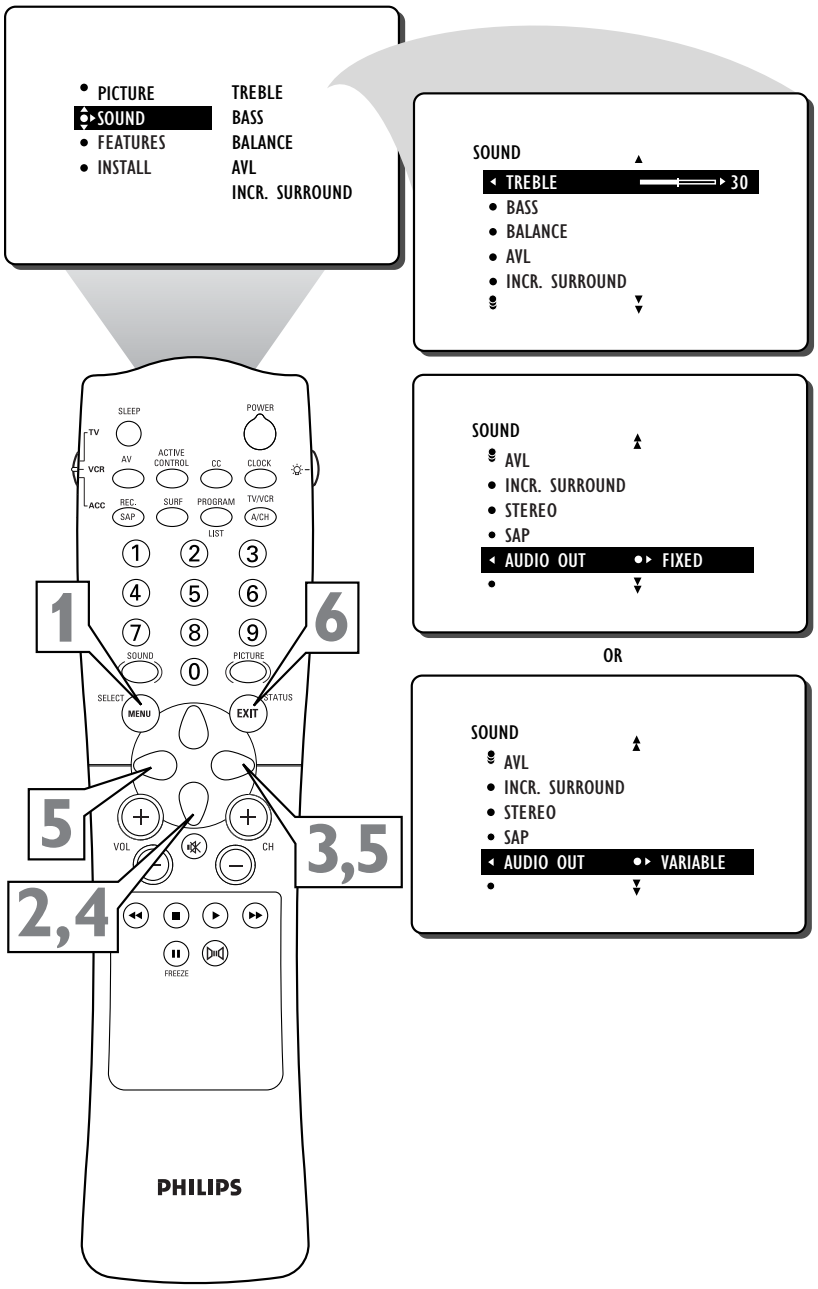
If an SAP signal is not present with a selected program, the SAP option cannot be selected. Also, if SAP is selected on a channel (with SAP) and you select another channel, when you return to the original channel, SAP will be OFF. You will have to reselect the SAP feature.



How to Use the Audio Out Control

If you have connected the TV's AUDIO OUTPUT jacks to the AUDIO INPUT jacks on a stereo receiver, set AUDIO OUT to either VARIABLE or FIXED to determine whether you adjust the volume at the stereo or at the TV. If you select VARIABLE, change the volume at the TV using the TV's remote control. If you select FIXED, adjust the volume at the stereo using the stereo's controls. To select FIXED or VARIABLE, follow these steps.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN button** repeatedly until AUDIO OUT is highlighted.
5. **Press the CURSOR RIGHT or CURSOR LEFT button** to select FIXED or VARIABLE.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.



Helpful Hint

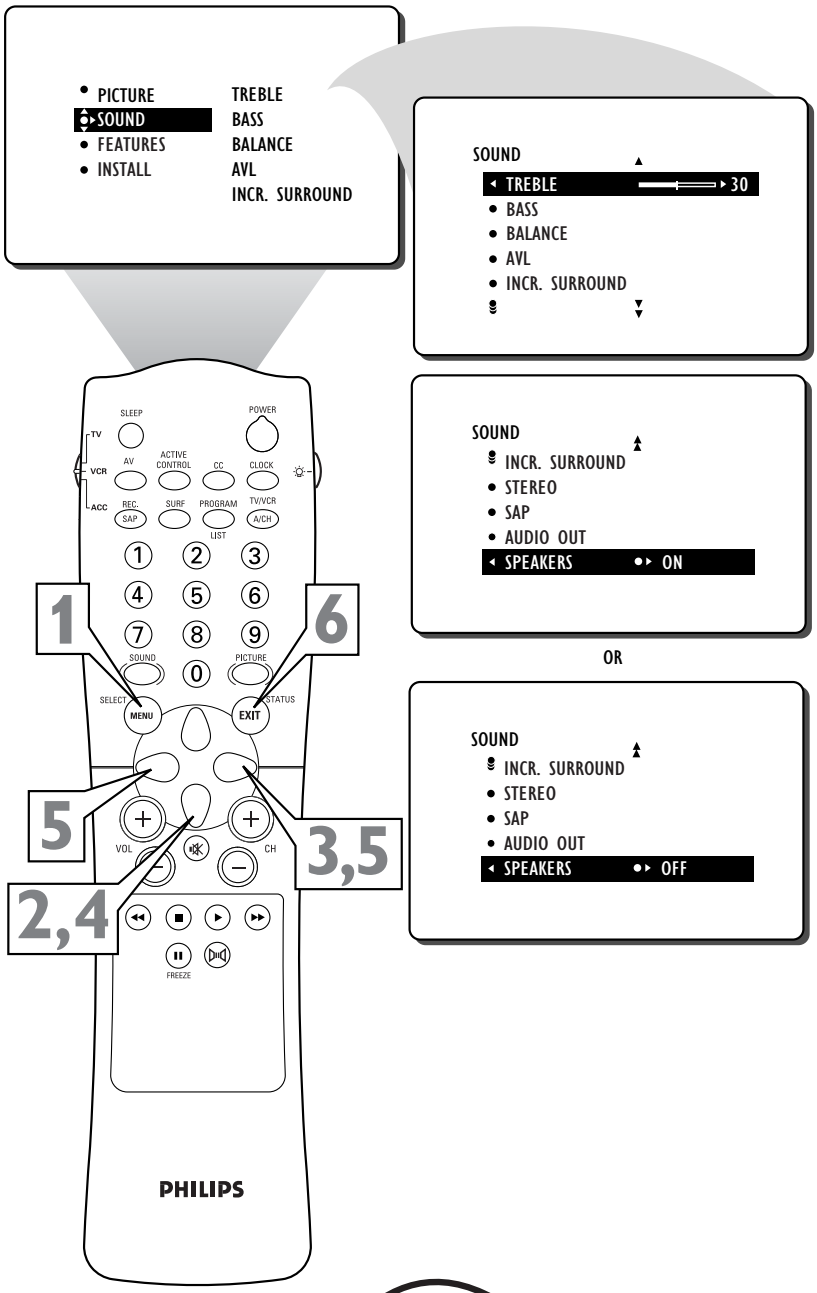
FIXED – If FIXED is selected, the sound coming from the TV and being heard through an external audio system is not adjustable with the television's volume controls. The volume would have to be adjusted at the audio system.

VARIABLE – If VARIABLE is selected, the sound coming from the TV and being heard through an external audio system can be adjusted at the TV using the Volume + or – buttons on the television or remote control.

How to Turn the TV Speakers On or Off

Using the TV's Audio (Monitor) Output jacks and TV Speaker ON/OFF control an external audio system can be used to hear the sound coming from the TV. The Speaker Control will allow you to turn the television's speakers off so the TV sound would only be heard through the audio system. Please refer to the Quick Use and Hookup Guide for the proper connections needed to hookup an external audio system.

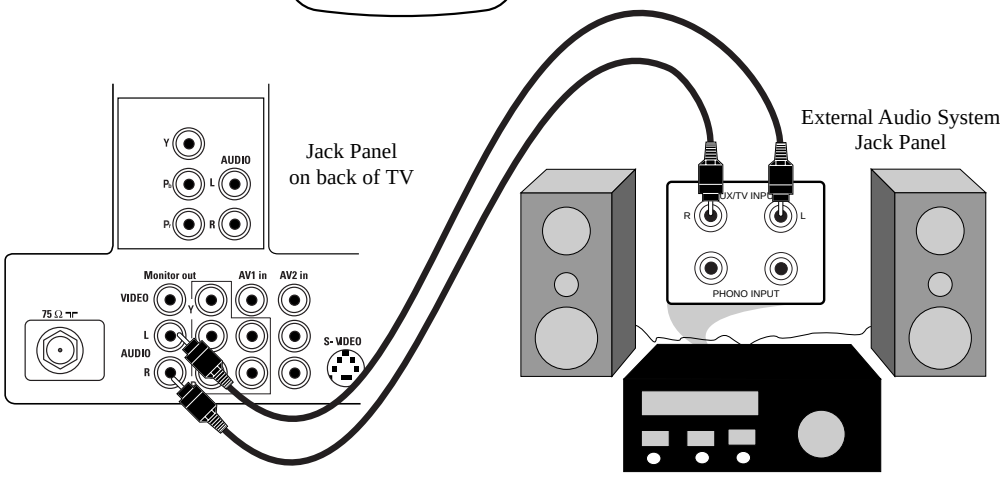
1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN button** repeatedly until SPEAKERS is highlighted.
5. **Press the CURSOR RIGHT or CURSOR LEFT button** to turn the television's speakers ON or OFF.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.



Helpful Hint

Be sure to first connect an external audio system to the television's Monitor Output (audio) jacks.

If the SPEAKERS Control is turned OFF and no external audio system is connected, there will be no sound heard at the TV.



SETTING THE TV CLOCK USING THE TIMER CONTROL

Your television comes with an on-screen clock. During normal operation, the clock appears on the screen when the STATUS/EXIT button is pressed or if the TIMER DISPLAY control is turned ON.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left and highlight the TIME control.
5. **Press the CURSOR RIGHT button** again to highlight the time indicator area.
6. **Press the CURSOR LEFT or CURSOR RIGHT button** to select the position or digit you wish to enter.
7. **Press the CURSOR UP or CURSOR DOWN button** to select the digits for the time. **Or press the NUMBERED buttons** to enter the correct time.
8. **Press the CURSOR RIGHT button** to move to the AM or PM position.
9. **Press the CURSOR UP or DOWN button** to set AM or PM.
10. **Press the STATUS/EXIT button** to remove the menu from the screen.

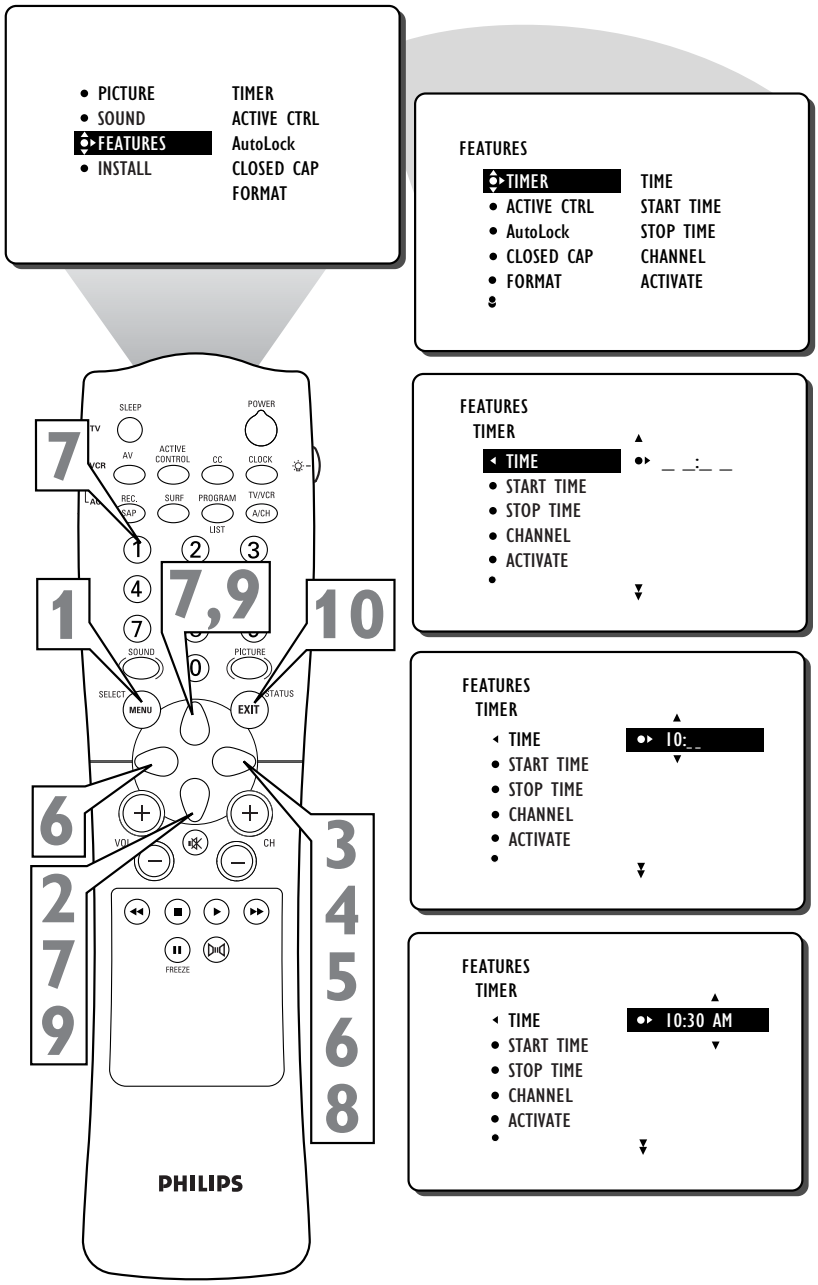
NOTE: The **TIMER Controls** can also be accessed by **pressing the CLOCK button on the remote control**. See lower diagram on this page.

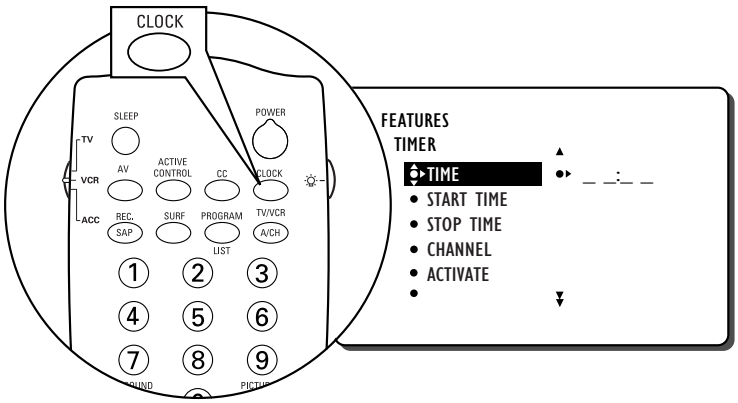
HELPFUL HINT

Remember, be sure to press *0* first and then the hour number for single-digit entries.

The Clock also can be set automatically using the AutoChron™ feature found on page 4 of the *Quick Use and Installation Guide* that came with your television.

The TV's clock settings may be lost when the TV is unplugged (or when AC power to the set is interrupted).





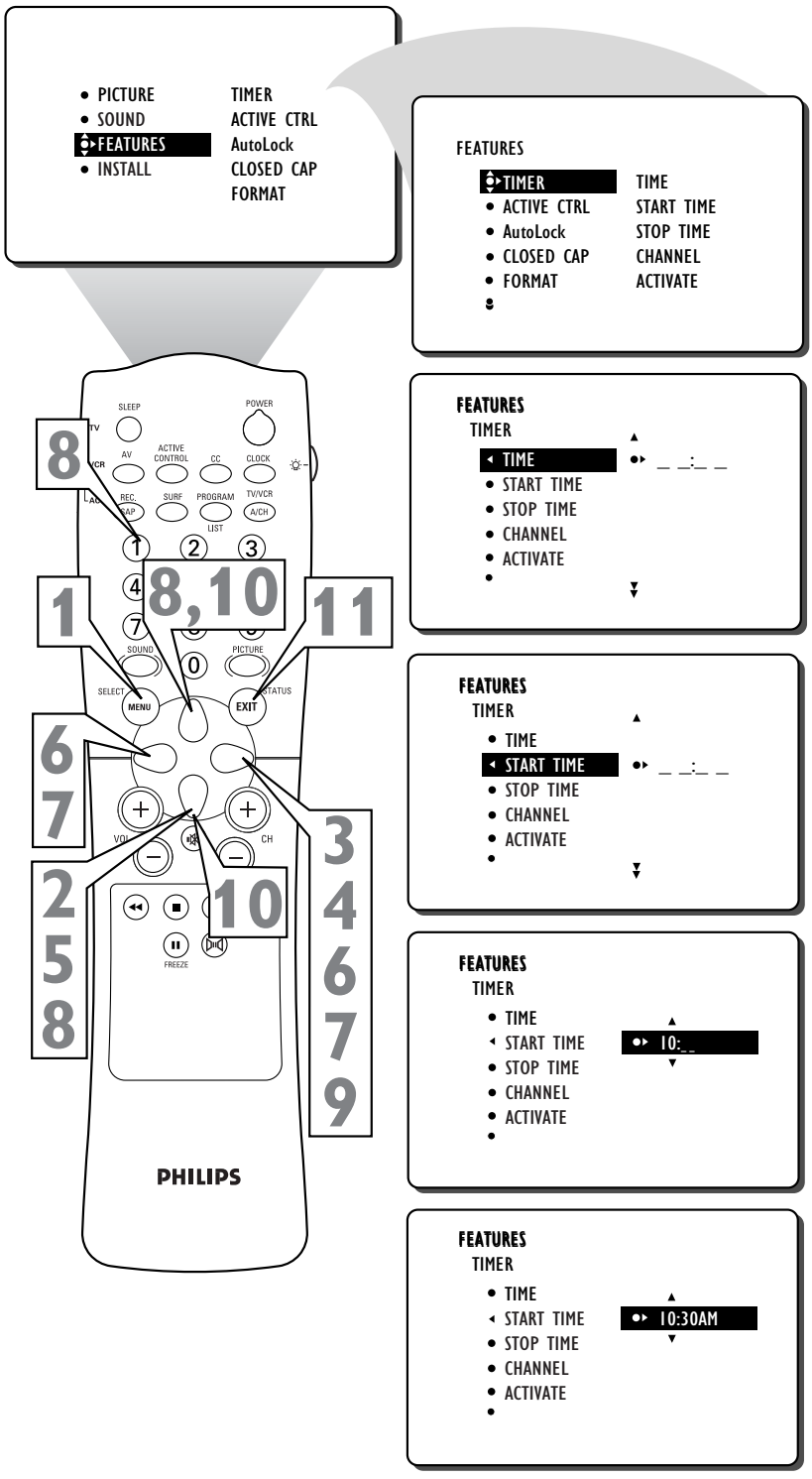
SETTING THE TV TO TURN ITSELF ON USING THE START TIME CONTROL

Just as you would an alarm clock, you can set the TV to turn itself ON once or at the same time every day. Follow these steps to set the Start Time.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the START TIME control.
6. **Press the CURSOR RIGHT button** again to highlight the time indicator area.
7. **Press the CURSOR RIGHT or CURSOR LEFT button** to move among the positions where the time is input.
8. **Press the CURSOR UP or CURSOR DOWN button** to select the digits for the time. **Or press the NUMBERED buttons** to enter the time you want the television to turn itself on.
9. **Press the CURSOR RIGHT button** to move to the AM or PM position.
10. **Press the CURSOR UP or DOWN button** to set AM or PM.

NOTE: The **ACTIVATE Control** (page 25) must be set to ONCE or DAILY for the START TIME Control to take effect.

11. **Press the STATUS/EXIT button** to remove the menu from the screen.



HELPFUL HINT

Remember, be sure to press *0* first and then the hour number for single-digit entries.

The ACTIVATE Control must be set to ONCE or DAILY for the television to turn itself on at the specified time. See page 25 for more details about the ACTIVATE Control.

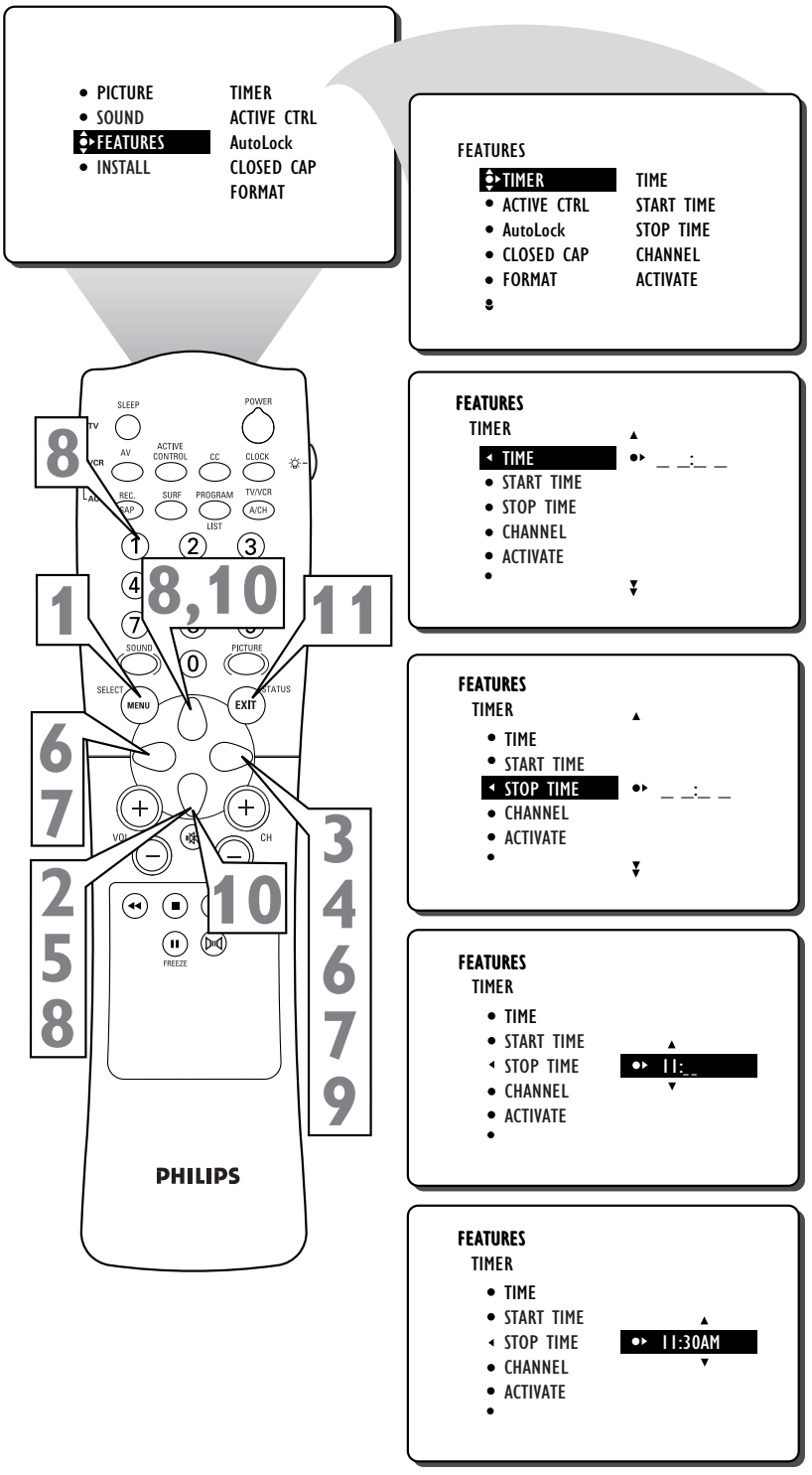
SETTING THE TV TO TURN ITSELF OFF USING THE STOP TIME CONTROL

The following steps will guide you in setting the TV to turn itself OFF at a specific time.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the STOP TIME control.
6. **Press the CURSOR RIGHT button** again to highlight the time indicator area.
7. **Press the CURSOR RIGHT or CURSOR LEFT button** to move among the positions where the time is input.
8. **Press the CURSOR UP or CURSOR DOWN button** to select the digits for the time. **Or press the NUMBERED buttons** to enter the time you want the television to turn itself off.
9. **Press the CURSOR RIGHT button** to move to the AM or PM position.
10. **Press the CURSOR UP or DOWN button** to set AM or PM.

NOTE: The **ACTIVATE Control** (page 25) must be set to ONCE or DAILY for the STOP TIME Control to take effect.

11. **Press the STATUS/EXIT button** to remove the menu from the screen.



HELPFUL HINT

Remember, be sure to press *0* first and then the hour number for single-digit entries.

The ACTIVATE Control must be set to ONCE or DAILY for the television to shut itself off at the specified time. See page 25 for more details about the ACTIVATE Control.

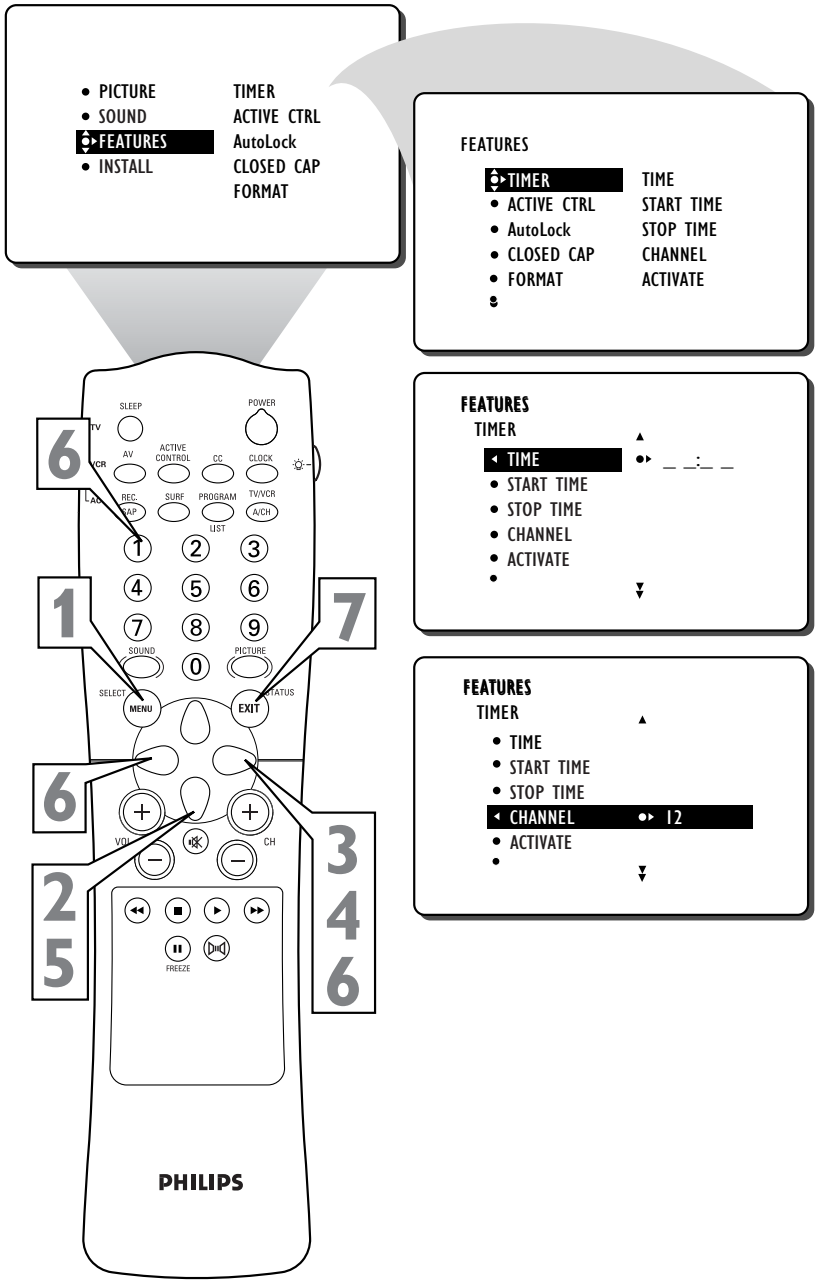
SETTING THE TV TO STARTUP ON A SPECIFIC CHANNEL

You can select a specific channel that the television will tune to when the timer turns the set ON. Follow these steps to select the channel.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the CHANNEL Control.
6. **Press the NUMBERED buttons** to enter the desired start-up channel. **Or, press the CURSOR RIGHT or CURSOR LEFT button** repeatedly to enter the start-up channel you want.

NOTE: The **ACTIVATE Control** (page 25) must be set to ONCE or DAILY for this Channel Control to take effect.

7. **Press the STATUS/EXIT button** to remove the menu from the screen.



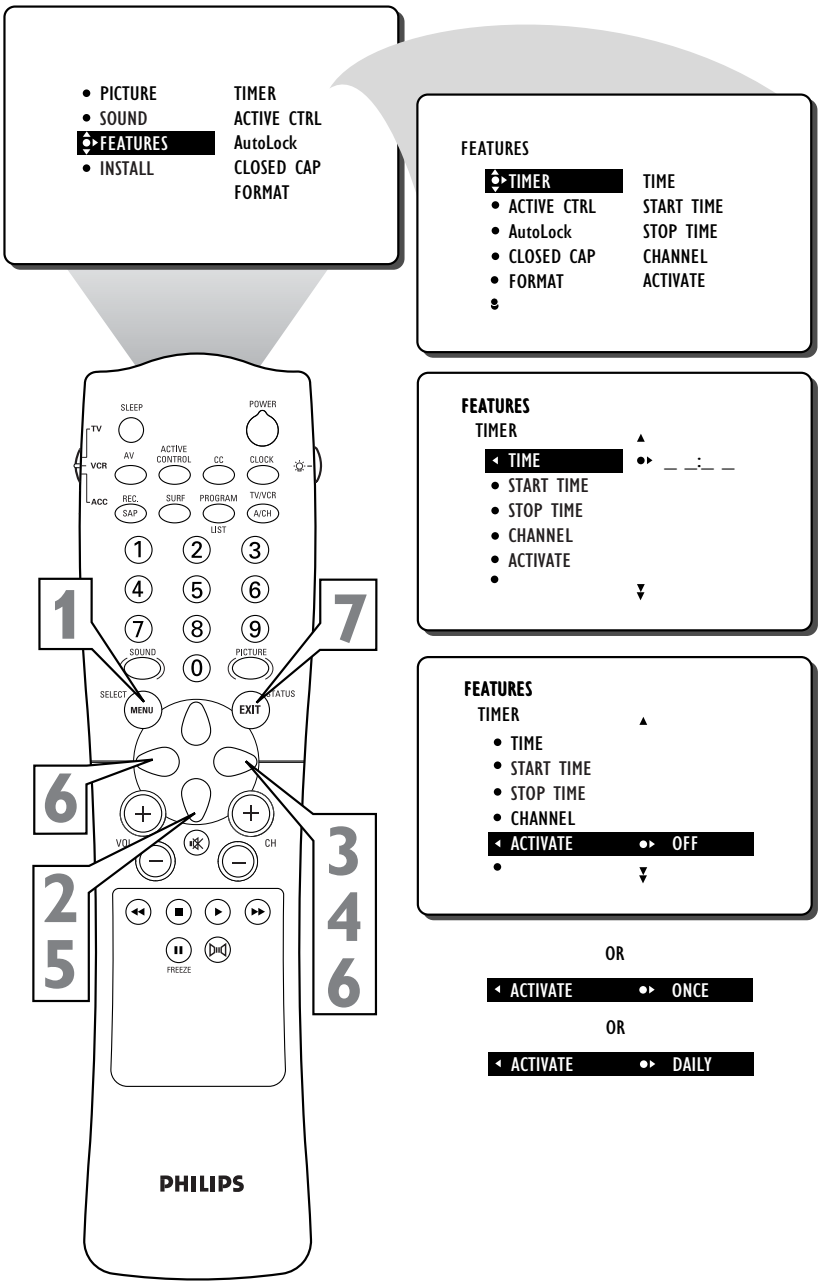
HELPFUL HINT

The ACTIVATE Control must be set to ONCE or DAILY for the television to tune itself to a specific channel at the specified time. See page 25 for more details about the ACTIVATE Control.

How to Activate the Timer Control Using the Activate Control

After you have set the Time, Start Time, Stop Time, and Start Channel, the timer must be set to come on ONCE or DAILY, or turned OFF through the ACTIVATE Control.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the ACTIVATE Control.
6. **Press the CURSOR RIGHT or CURSOR LEFT button** repeatedly to select ONCE, DAILY or OFF.
7. **Press the STATUS/EXIT button** to remove the menu from the screen.



☑ *Check It Out*

With the ACTIVATE Control set to ONCE, the START TIME, STOP TIME, and START CHANNEL Controls will only be activated one time.
With the ACTIVATE Control set to DAILY, the START TIME, STOP TIME, and START CHANNEL Controls will be activated every day of the week until it is turned OFF or set to ONCE.

Helpful Hint

Remember, before setting the TIMER controls, the TV's clock must be set to the correct time manually (see page 21) or by using the AutoChron™ feature described on page 4 of the *Quick Use and Installation Guide.*

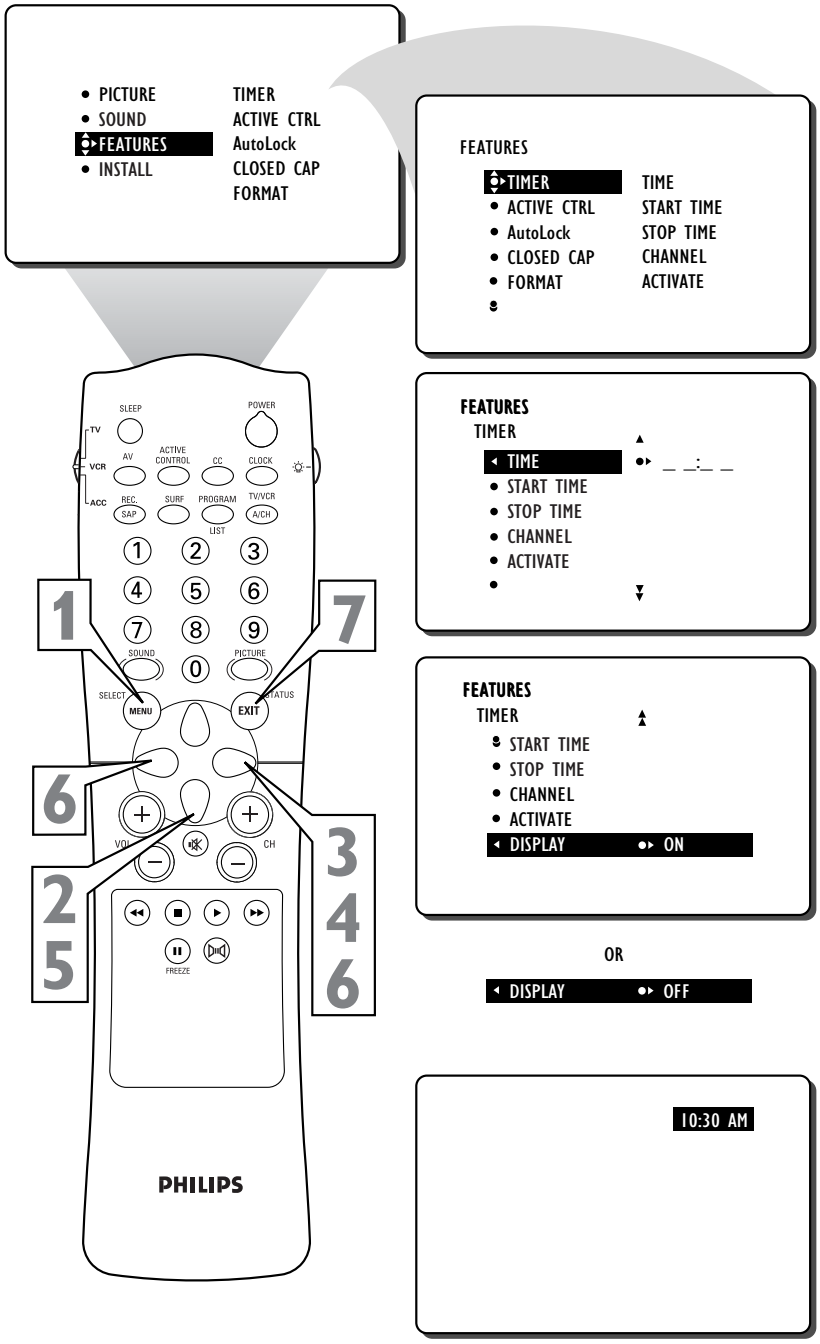
How to View the Time Using the Display Control

After the TV's clock has been set, you can use your TV as a clock. The TIMER DISPLAY control allows you to permanently display the time in the upper right corner of the screen.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the DISPLAY Control.
6. **Press the CURSOR RIGHT or CURSOR LEFT button** repeatedly to select ON or OFF.
7. **Press the STATUS/EXIT button** to remove the menu from the screen.

☑ *Check It Out*

If the TIME has been set and the DISPLAY Control set to ON, the current time will appear in the upper right corner of the TV screen while the TV is powered on.



How to Use the Active Control

The Active Control monitors and adjusts incoming video signals to help provide the best picture quality.

When you choose to turn the Active Control ON, the picture sharpness and noise reduction are controlled automatically. Active Control adjusts these picture settings continuously and automatically.

***NOTE:** Active Control is not available for signals connected to the AV4 inputs.*

1 **Press the MENU button** on the remote control to show the on-screen menu.

2 **Press the CURSOR DOWN button** twice to highlight FEATURES.

3 **Press the CURSOR RIGHT button** and the menu will shift to the left.

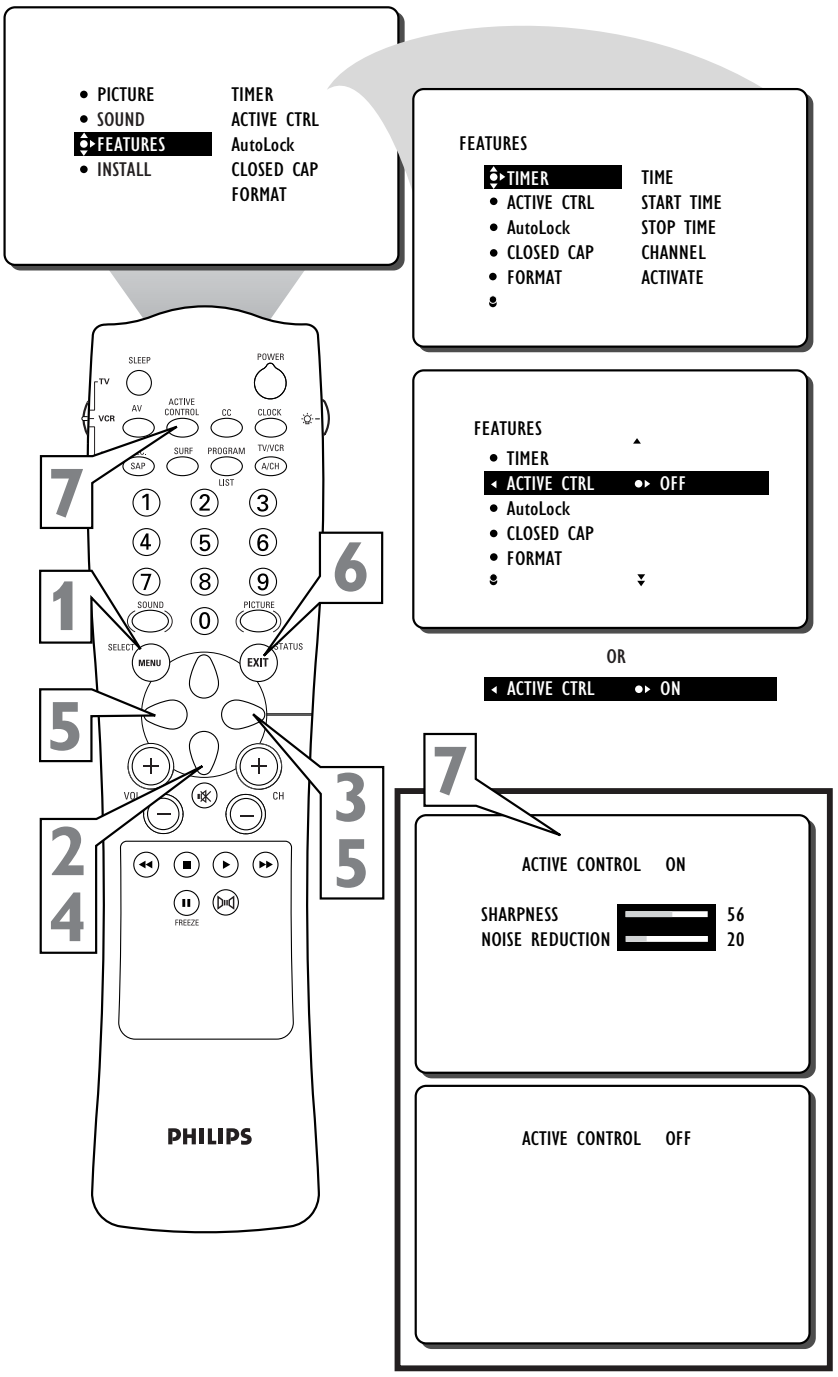
4 **Press the CURSOR DOWN button** repeatedly until the ACTIVE CTRL (control) is highlighted.

5 **Press the CURSOR RIGHT or CURSOR LEFT button** repeatedly to toggle the ACTIVE CONTROL ON or OFF.

6 **Press the STATUS/EXIT button** to remove the menu from the screen.

---

7 You can also **press the ACTIVE CONTROL button** on the remote control to toggle the ACTIVE CONTROL ON or OFF.



☑ *Check It Out*

Toggle the ACTIVE CONTROL ON with the remote control and a screen display will appear showing the Active Control at work. You will see the sharpness and noise reduction settings changing to provide the best possible picture quality.

UNDERSTANDING THE AUTOLOCK™ FEATURE

The AutoLock™ feature receives and processes data sent by broadcasters or other program providers that contain program content advisories. When programmed by the viewer, a TV with AutoLock™ can respond to the content advisories and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of programming children may watch.

In the AutoLock™ section, you'll learn how to block channels and programming that is not rated, is unrated, or has no rating. You will also find out how to turn these blocking features ON or OFF. Following are brief explanations of some terms and ratings related to the AutoLock™ feature.

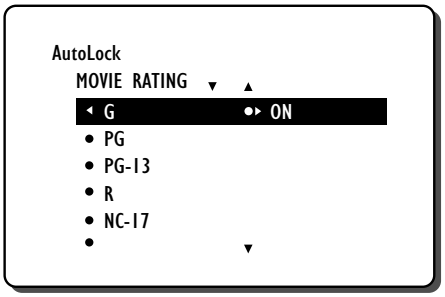
AutoLock™ offers various Blocking Options from which to choose:

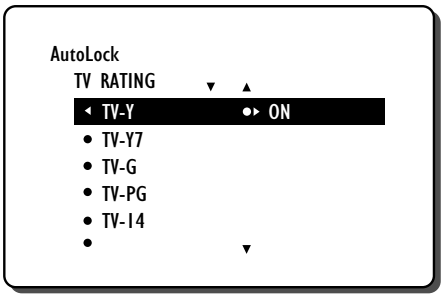
BLOCKING: The BLOCKING control is what can be thought of as the "master switch" for AutoLock™. This control affects the settings you have chosen for blocking programs according to movie ratings or TV ratings, for blocking programs that have no rating, or are unrated. When the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen.

NO RATING: ALL programming with no content advisory data can be blocked if NO RATING is set to ON.

Programming that has No Rating is not encoded with any rating information from the MPAA or the Parental Guidelines. Any programming could fall into this category.

You also can block individual channels or block programming based on ratings of the MPAA and TV broadcasters. (See a description of the ratings on this page.)





MOVIE RATINGS
(MOTION PICTURE ASSOCIATION OF AMERICA)

G: General Audience - All ages admitted. Most parents would find this programming suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

PG: Parental Guidance Suggested - This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.

PG-13: Parents Strongly Cautioned - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.

R: Restricted -This programming is specifically designed for adults. Anyone under the age of 17 should view this programming only with an accompanying parent or adult guardian. It contains one or more of the following: intense violence; intense sexual situations; strong, coarse language; or intensely suggestive dialogue.

NC-17: No one under the age of 17 will be admitted. - This type of programming should be viewed by adults only. It contains graphic violence. explicit sex. or crude, indecent language.

X: Adults Only - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, or very coarse and intensely suggestive language.

TV PARENTAL GUIDELINES
(TV BROADCASTERS)

***TV-Y*:** (**All children** -- *This program is designed to be appropriate for all children.*) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV-Y7: (**Directed to Older Children** -- *This program is designed for children ages 7 and above.*) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

***TV-G*:** (**General Audience** -- *Most parents would find this program suitable for all ages.*) This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

TV-PG: (**Parental Guidance Suggested** -- *This program contains material that parents may find unsuitable for younger children.*) This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

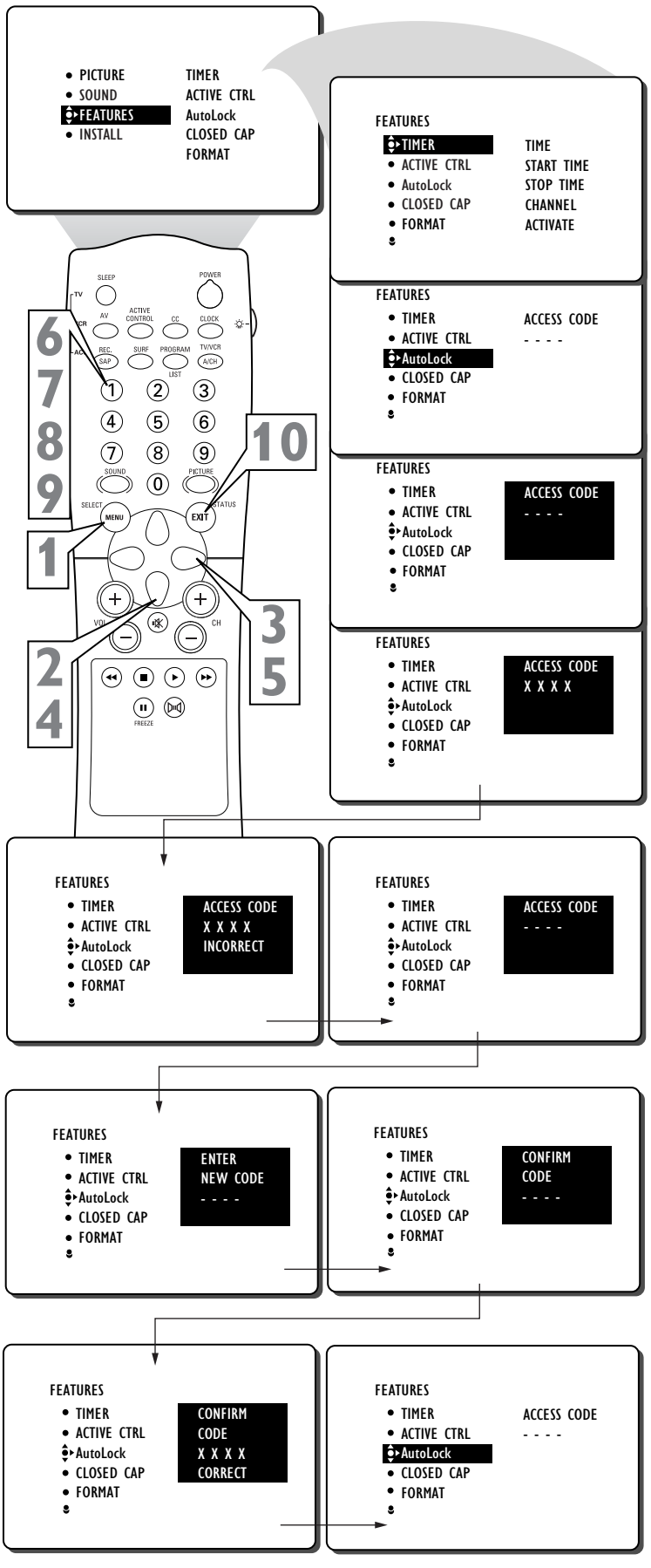
TV-14: (**Parents Strongly Cautioned** - - *This program contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intense violence (V) intense sexual situations (S) strong, coarse language (L) or intensely suggestive dialogue (D).

TV-MA: (**Mature Audience Only** -- *This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.*) This type of programming contains one or more of the following: graphic violence (V) explicit sexual situations (S) or crude, indecent language (L).

SETTING UP AN AUTOLOCK™ ACCESS CODE

AutoLock™ allows parents to block out or "censor" any channels they think children should not watch. A channel blocked by the AutoLock™ control cannot be viewed until a correct access code is used to unlock the channel for viewing. First, let's set your AutoLock access code.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock control.
5. **Press the CURSOR RIGHT button** to highlight **ACCESS CODE.**
6. **Press 0,7,1,1** on the remote control. *INCORRECT* will appear on the screen.
7. **Press 0,7,1,1** on the remote control again. ENTER NEW CODE will appear on the screen.
8. **Enter a new four-digit code** using the number buttons. CONFIRM CODE will appear on the screen.
9. **Enter your new four-digit code** again. *CORRECT* will flash on the screen briefly and the highlight bar goes back to AutoLock.
10. **Press the STATUS/EXIT button** to remove the menu from the screen.



HELPFUL HINT

Remember that 0711 is the default AutoLock™ code. If your access code has been changed by someone other than you (a child, for example) or you have forgotten the code, you can always get in by inputting the default code.

NOTE TO PARENTS: It isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code has been changed without your knowledge, then you will become aware that blocked channels may have been viewed.

How to Block Channel Using AutoLock™

After your personal access code has been set (see the previous page), you are ready to select the channels or inputs you want to block out or censor.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock™ control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR RIGHT button** to highlight the TV's available channels.
8. **Press the CURSOR UP or CURSOR DOWN button** to highlight the channel you want to block.
9. **Press the CURSOR RIGHT button** to block the channel. A padlock image appears to the right of the channel number.

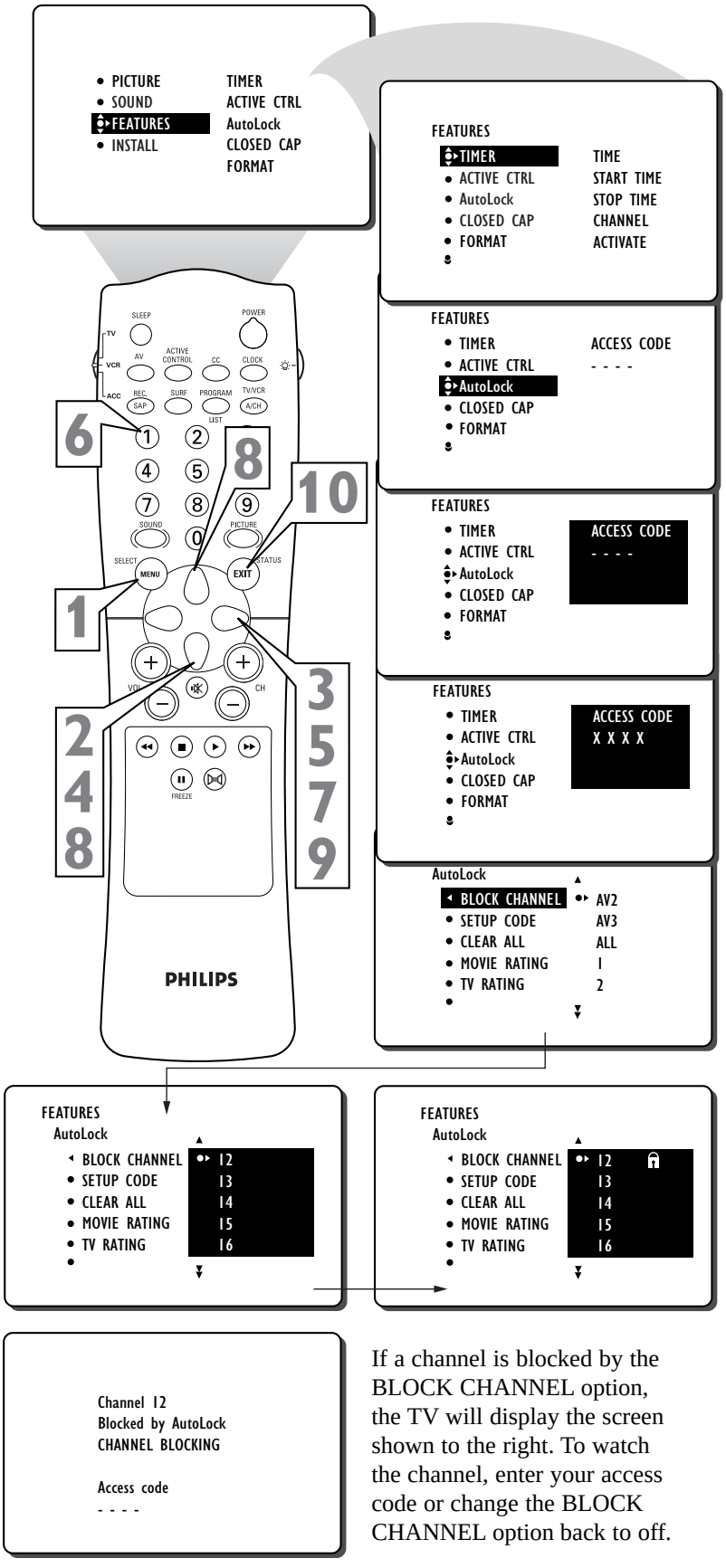
Repeat steps 7 and 8 for any channels you want to block from viewing.

10. **Press the STATUS/EXIT button** to remove the menu from the screen.

Helpful Hint

Remember that 0711 is the default AutoLock™ code. If your access code has been changed by someone other than you (a child, for example) or you have forgotten the code, you can always get in by inputting the default code.

NOTE: You also can block out the use of the A/V external inputs on the rear of the TV. This stops the viewing of VCR, DVD, and other sources that can be shown through the A/V input jacks. Select AV1, CVI, AV2, SIDE (AV3), or AV4; and then select BLOCK.



If a channel is blocked by the BLOCK CHANNEL option, the TV will display the screen shown to the right. To watch the channel, enter your access code or change the BLOCK CHANNEL option back to off.

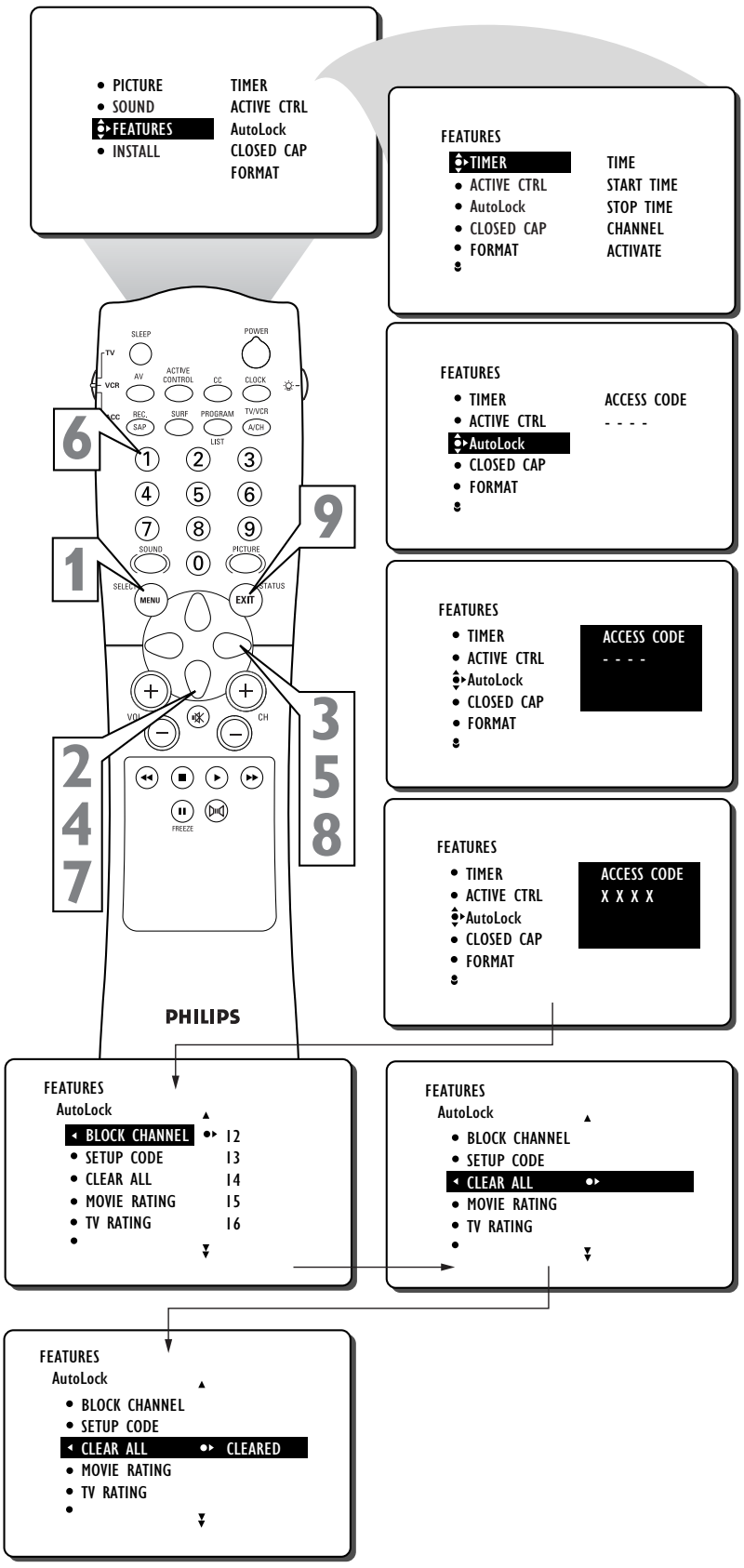
How to Clear All Blocked Channels Using AutoLock™

Various onscreen messages will appear when someone tries to view blocked programming. The message is determined by how the current programming is blocked. You may view the blocked programming and turn OFF the AutoLock™ feature by using the Clear All control or by entering your access code.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock™ control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN button** twice to highlight CLEAR ALL.
8. **Press the CURSOR RIGHT button** twice. The CLEAR ALL option will display the word *CLEARED*. All blocked channels and programming are now viewable.
9. **Press the STATUS/EXIT button** to remove the menu from the screen.

Helpful Hint

If you tune to a specific channel that has been blocked by BLOCK CHANNEL or any of the AutoLock™ RATING options, simply enter your four-digit access code to view the channel.
NOTE: this will unblock ALL channels until the TV is shut OFF. When powered back ON, all previously blocked channels will be blocked again.



How to Block Programming Based on Movie Ratings

After your personal access code has been set, you can select specific movie ratings that you want to censor.

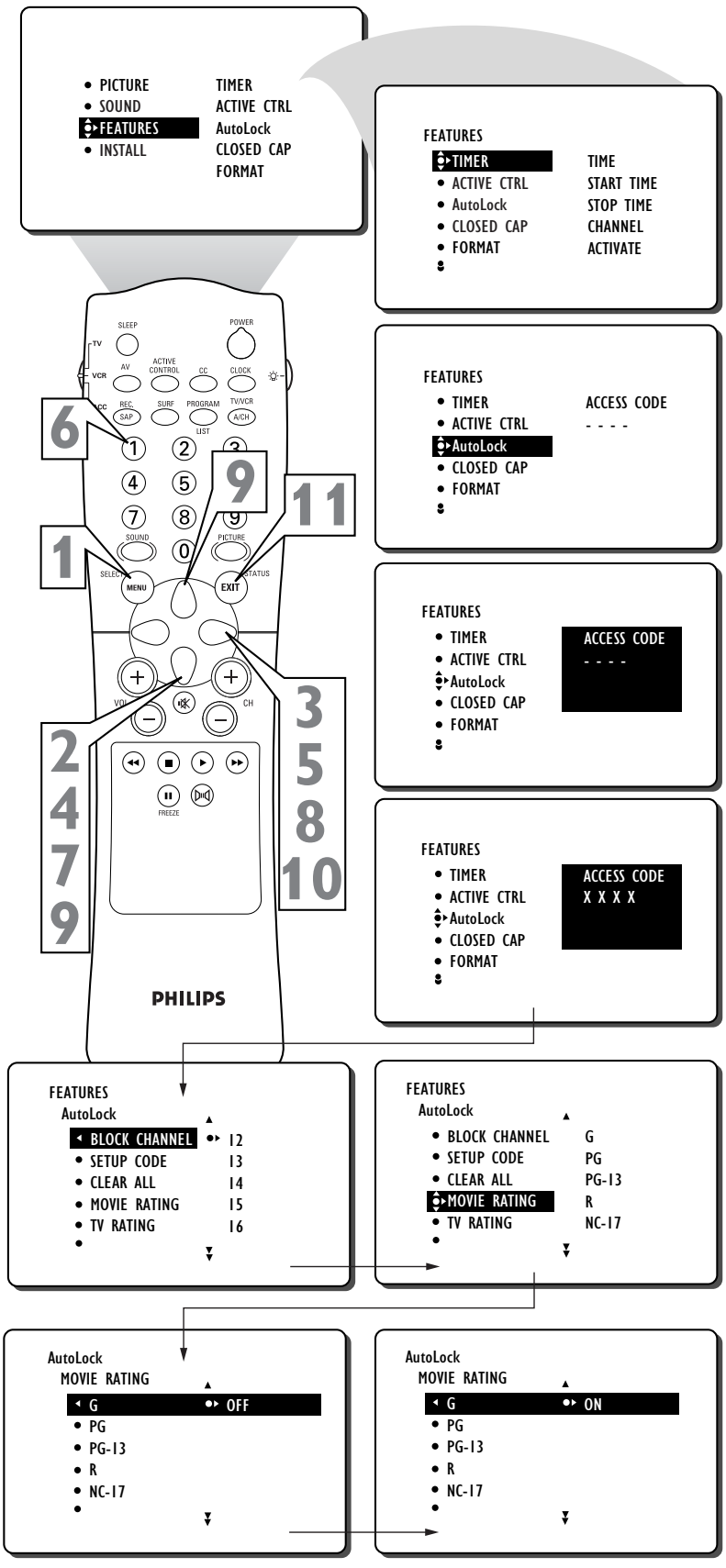
1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock™ control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN button** repeatedly until MOVIE RATING is highlighted.
8. **Press the CURSOR RIGHT button** and the Rating menu shifts to the left with *G* highlighted.
9. **Press the CURSOR UP or CURSOR DOWN button** to highlight each rating you want.
10. **Press the CURSOR RIGHT button** to turn the rating ON or OFF. Turning the rating ON will block programs with that rating from being seen.
11. **Press the STATUS/EXIT button** to remove the menu from the screen.

Helpful Hint

When a rating is turned ON, all higher ratings also will be turned on automatically. For example, if the *R* rating is turned on, the *NC-17* and *X* ratings also will be turned on.

All Movie Ratings can be turned ON or OFF.

Refer to page 28 for Movie Rating definitions.



How to Block Programming Based on TV Ratings

You can select specific TV ratings that you want to censor by following these steps.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock™ control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN button** repeatedly until TV RATING is highlighted.
8. **Press the CURSOR RIGHT button** and the menu will shift to highlight the TV RATING options.
9. **Press the CURSOR UP or DOWN button** to select a rating.
10. **Press the CURSOR RIGHT or LEFT button** to turn the block on the rating ON or OFF.

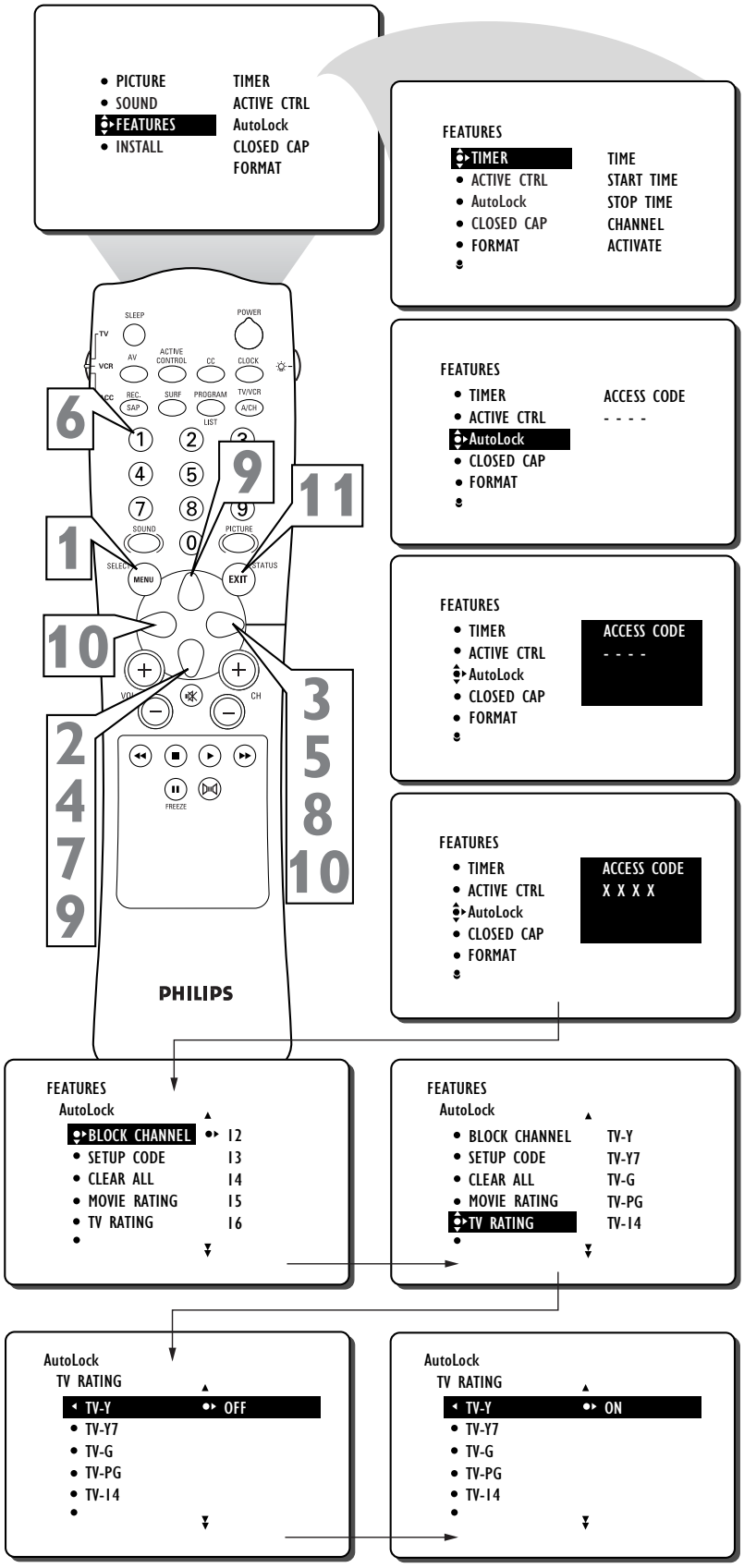
NOTE: More specific subratings (for violence, sexual content, dialogue, or fantasy violence) are available for TV-Y7, TV-PG, TV-14, and TV-MA. (Refer to page 28 for definitions.)

To access these subratings, with the main rating selected, **press the CURSOR RIGHT button.** Then, repeat steps 9 and 10 to turn the sub-ratings ON or OFF.

11. **Press the STATUS/EXIT button** to remove the menu from the screen.

Helpful Hint

When a rating is turned ON, all higher ratings also will be turned on automatically. For example, if the *R* rating is turned on, the *NC-17* and *X* ratings also will be turned on.



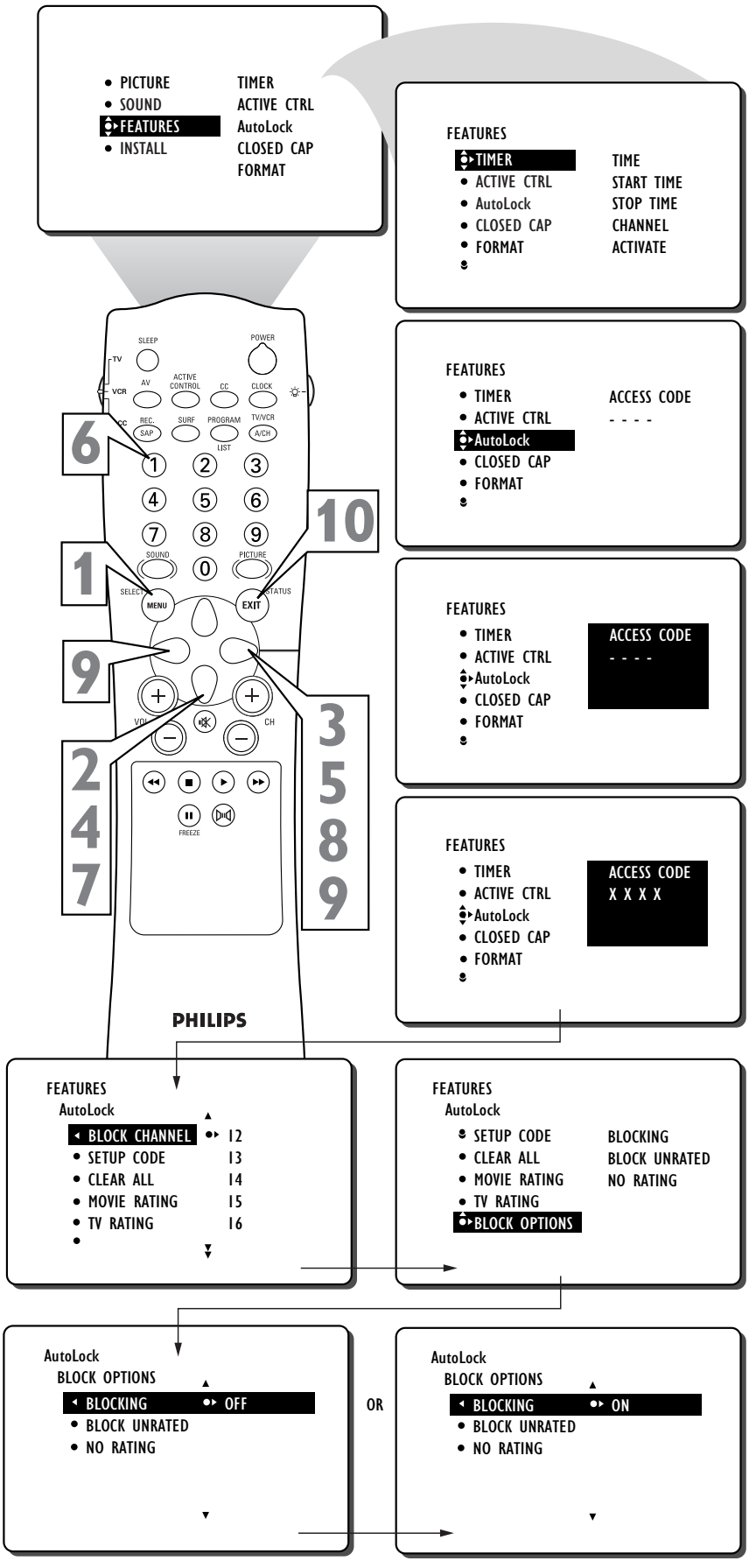
OTHER AUTOLOCK BLOCKING OPTIONS - BLOCKING CONTROL

The BLOCKING control is what can be thought of as the "master switch" for AutoLock™. This control affects the settings you have chosen for blocking programs according to movie ratings or TV ratings, or for blocking programs that have no rating or are unrated. When the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen. Follow these steps to toggle BLOCKING OFF or ON.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN button** repeatedly until BLOCK OPTIONS is highlighted.
8. **Press the CURSOR RIGHT button** to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
9. **Press the CURSOR RIGHT or LEFT button** to toggle BLOCKING ON or OFF.
10. **Press the STATUS/EXIT button** to remove the menu from the screen.

HELPFUL HINT

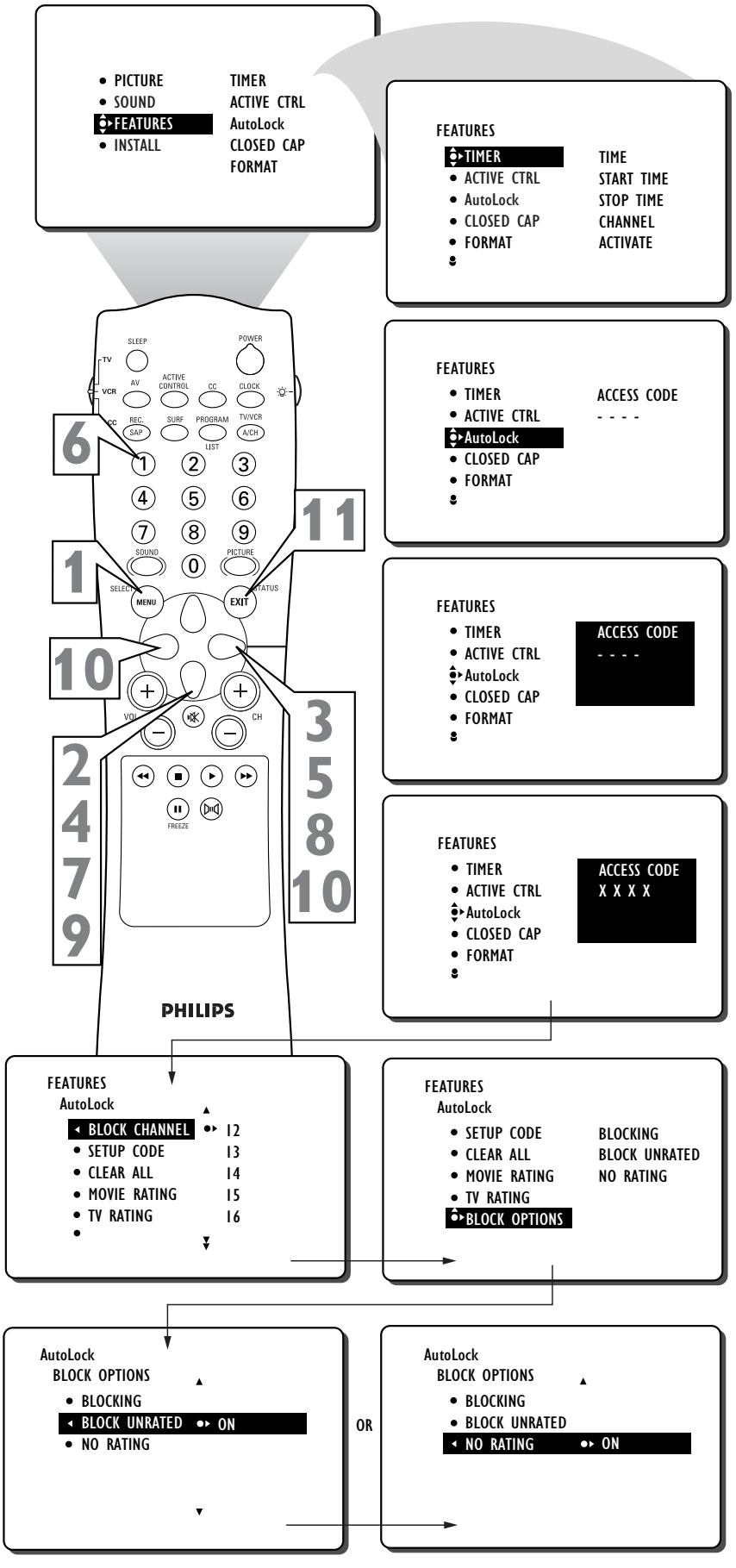
Remember, when the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen.



OTHER AUTOLOCK BLOCKING OPTIONS - UNRATED AND NO RATING

Some programming is not encoded with content advisory data by the MPAA (Motion Picture Association of America) or the television broadcasters (see the explanation on page 28). To block such programming, follow these steps.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN button** repeatedly until BLOCK OPTIONS is highlighted.
8. **Press the CURSOR RIGHT button** to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
9. **Press the CURSOR DOWN button** to highlight either the BLOCK UNRATED or NO RATING option.
10. **Press the CURSOR RIGHT or LEFT button** to toggle the control ON or OFF.
11. **Press the STATUS/EXIT button** to remove the menu from the screen.



How to Review the AutoLock™ Status Screen

To remind you which ratings you have blocked and which Block Options you have selected, a review screen is available to review your AutoLock™ settings. To access this screen follow the steps below.

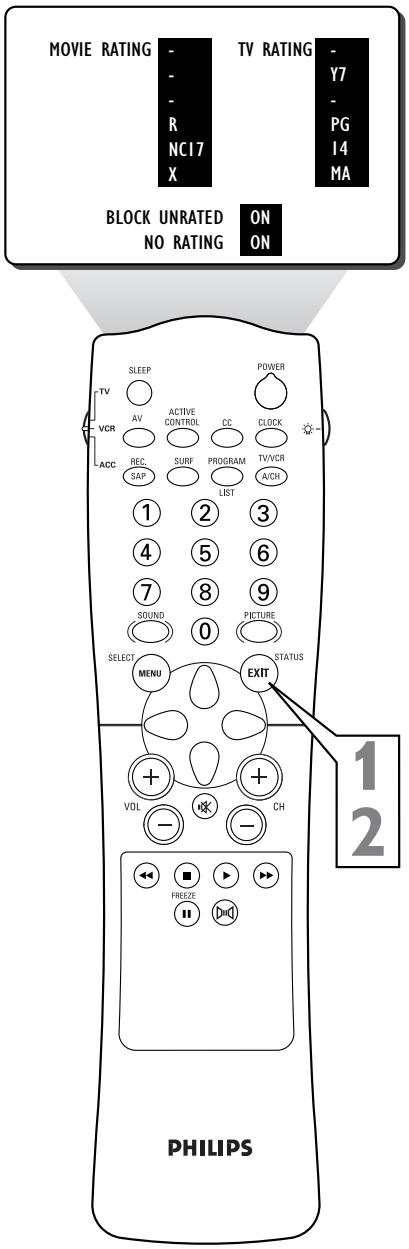
1 **Press the STATUS/EXIT button** on your remote control **TWICE**. Your AutoLock™ settings will appear on the screen.

NOTE: If you have blocked specific subratings, such as *V* for Violence in the TV-PG category, these blocked subratings will not appear in the review. The subratings however, are still blocked according to your selections.

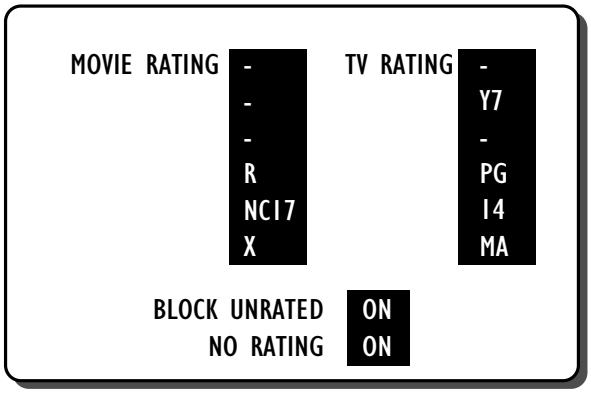
2 After a few seconds, the settings will leave the screen automatically, or you can **press the STATUS/EXIT button** a third time to remove them from the screen.

Helpful Hint

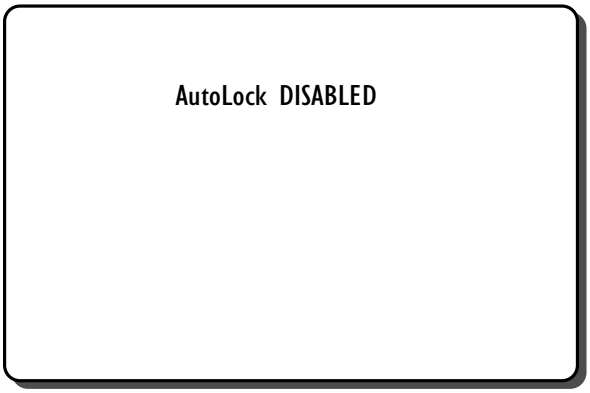
The AutoLock™ Status screen will only appear if the BLOCKING option is set to ON. For details, see page 34.



This display will appear after the step 1 above is completed if the AutoLock™ BLOCKING option is set to ON.



This display will appear after the step 1 above is completed if the AutoLock™ BLOCKING option is set to OFF.



How to use the Closed Captioning Control

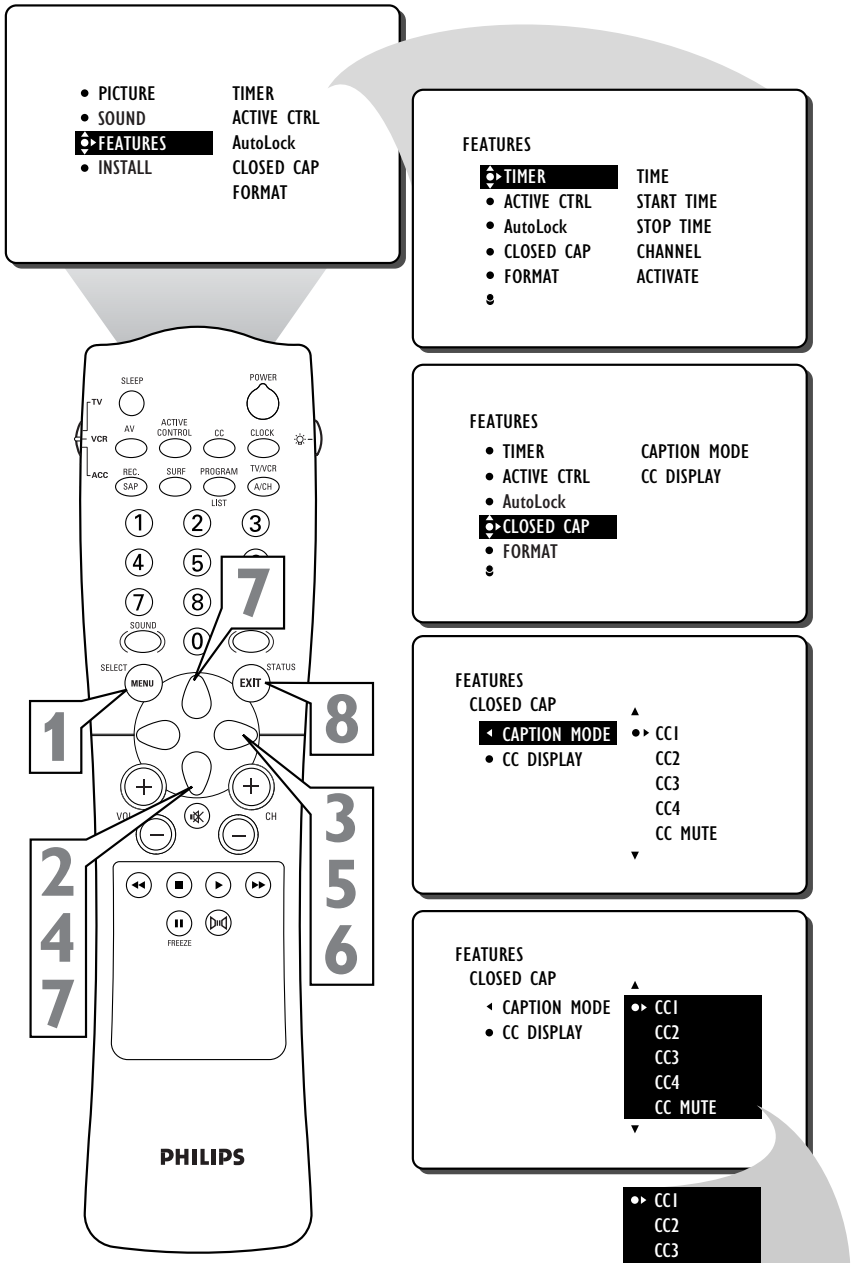
Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.

NOTE: Not all TV programs and product commercials are broadcast with Closed Captioning (CC). Nor are all Closed Captioning Modes (CAPTION 1–4 or TEXT 1–4) necessarily being used by broadcast stations during the transmission of a program offering Closed Captioning. Refer to your area's TV program listings for the stations and times of shows being broadcast with Closed Captioning.

1. **Press the MENU button** on the remote control to show the on-screen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the CLOSED CAP control is highlighted.
5. **Press the CURSOR RIGHT button** again. The menu will shift to the left and CAPTION MODE will be highlighted.
6. **Press the CURSOR RIGHT button** to highlight CAPTION MODEs.
7. **Press the CURSOR UP or CURSOR DOWN button** to select a CAPTION MODE: CC1, CC2, CC3, CC4, CC MUTE, TXT1, TXT2, TXT3, or TXT4. CC DISPLAY turns text OFF or ON if the TV station broadcasting on the channel is making CLOSED CAPTIONING available. With CC DISPLAY highlighted, press the CURSOR RIGHT button to toggle Closed Captioning ON or OFF.

NOTE: You also can press the CC button on the remote control to turn the CC TEXT option ON or OFF.

8. **Press the STATUS/EXIT button** to remove the menu from the screen.



CAPTION Mode Example Display

TEXT Mode Example Display - The TV screen will be blocked from viewing.

CLOSE CAPTION PROGRAMS ON WXYZ
ALL ITEMS ARE EASTERN STANDARD TIME (EST)
CHECK LOCAL LISTINGS
FOR TIMES IN YOUR AREA
6:00 TOP OF THE MORNING
10:00 THE BEST LITTLE CALL-IN SHOW EVER
12:00 NOONDAY NEWS
1:30 AS YOUR LIFE TURNS MY WORLD AROUND
6:00 WORLD NEWS FOR TODAY
9:00 PLAYHOUSE MOVIE OF THE WEEK

How to Use the Screen Format Control

You can change the screen format size to match the type of program you're watching. Select the normal 4:3 aspect ratio or any of the zoom or wide screen aspect ratios.

1 **Press the MENU button** on the remote control to show the on-screen menu.

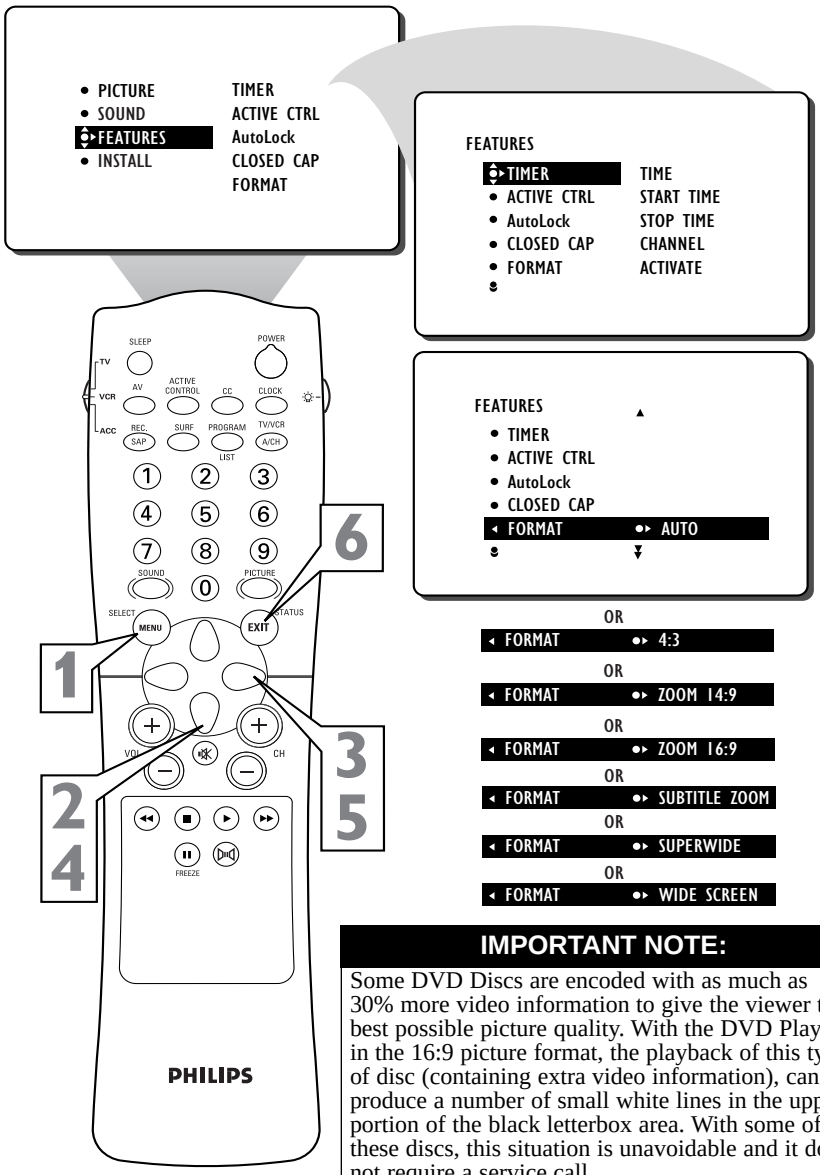
2 **Press the CURSOR DOWN button** twice to highlight FEATURES.

3 **Press the CURSOR RIGHT button** and the menu will shift to the left.

4 **Press the CURSOR DOWN button** repeatedly until the FORMAT control is highlighted.

5 **Press the CURSOR RIGHT button** repeatedly to toggle among the six screen format sizes – AUTO, 4:3, ZOOM 14:9, ZOOM 16:9, SUBTITLE ZOOM, SUPER WIDE or WIDE SCREEN.

6 **Press the STATUS/EXIT button** to remove the menu from the screen.



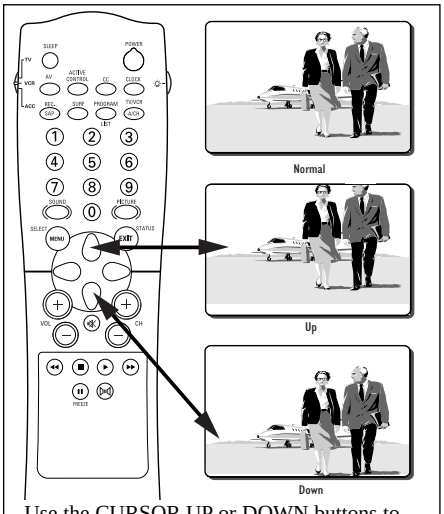
Helpful Hint

When the onscreen menu is not displayed, pressing the CURSOR RIGHT or LEFT buttons will toggle the screen FORMAT options.

The FORMAT control is not available for use with the AV 4 Inputs (AV4 Channel) if 1080i signal is detected.

IMPORTANT NOTE:

Some DVD Discs are encoded with as much as 30% more video information to give the viewer the best possible picture quality. With the DVD Player in the 16:9 picture format, the playback of this type of disc (containing extra video information), can produce a number of small white lines in the upper portion of the black letterbox area. With some of these discs, this situation is unavoidable and it does not require a service call.

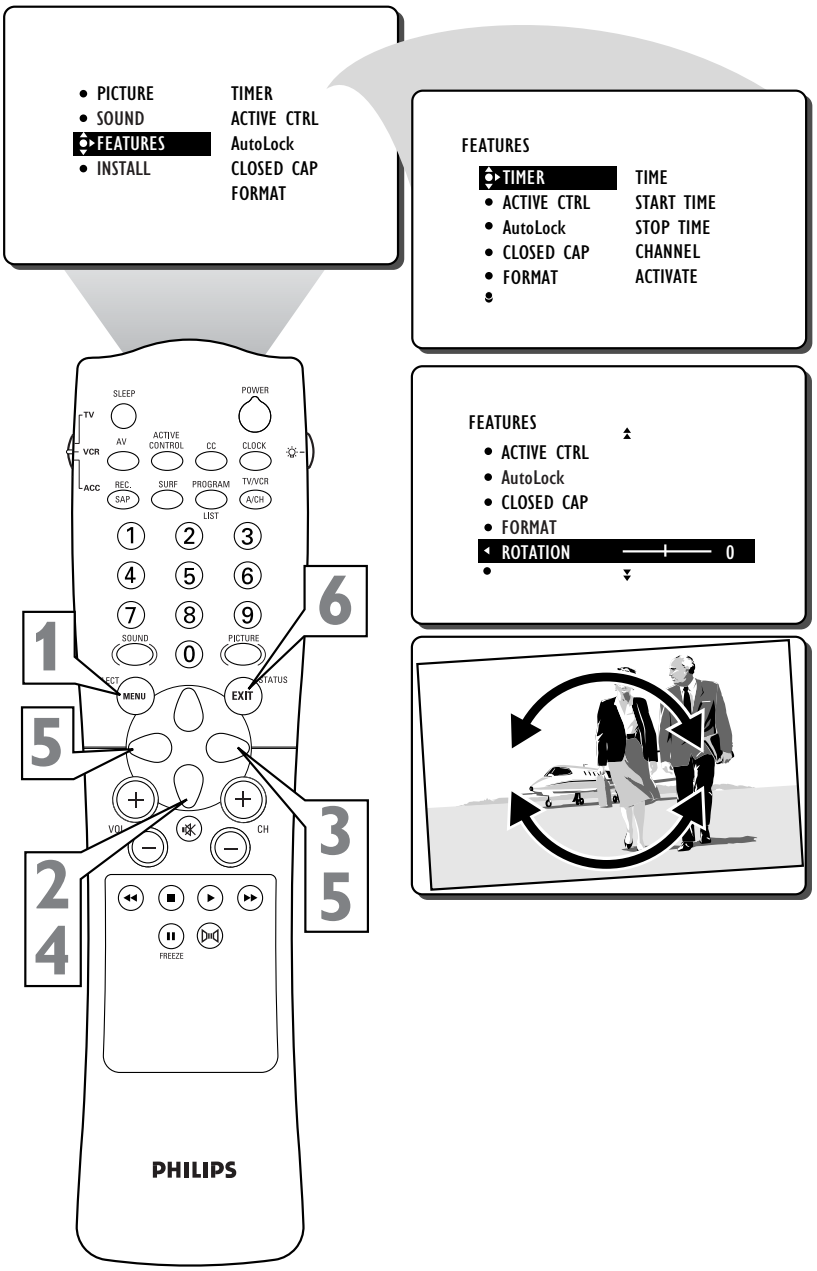


Use the CURSOR UP or DOWN buttons to move *(pan)* the picture up or down in short movements when needed. This will work in all formats except 4:3, and WIDE SCREEN.

How to use the Rotation Control

In rare cases the video supplied to the TV screen might show slightly tilted one way or another. The Tilt Adjust control will allow you to correct the problem by adjusting the screen in a clockwise or counterclockwise direction.

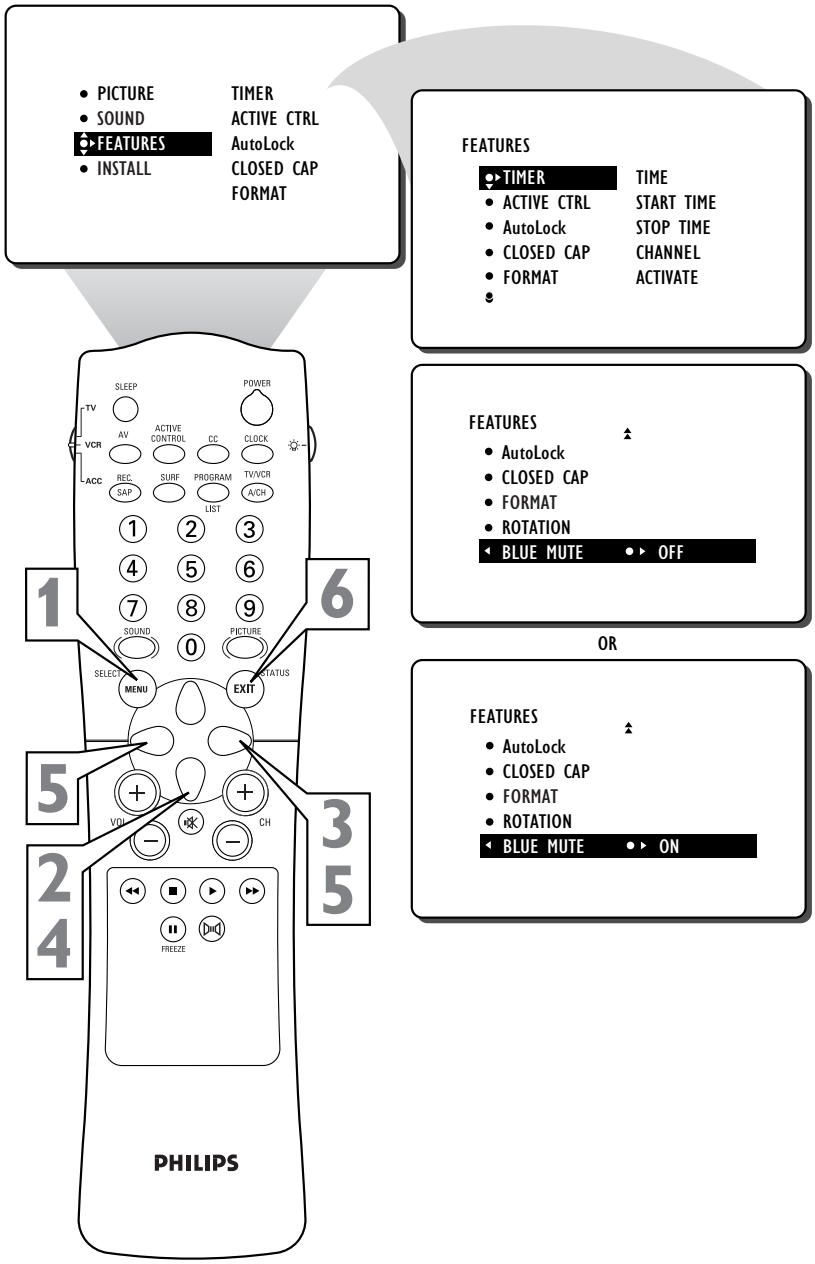
1. **Press the MENU button** on the remote control to show the on-screen menu.
2. **Press the CURSOR DOWN button** until FEATURES is highlighted.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the ROTATION control is highlighted.
5. **Press the CURSOR RIGHT or LEFT button** to rotate the picture on the screen clockwise or counter clockwise. Please note that the amount of rotation will be very minimal.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

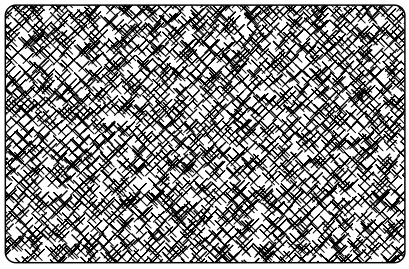


How to set the Blue Mute Control

Normally, the television would display a "snowy" looking screen with a lot of static sounds when the signal is lost. The Blue Mute control will automatically set the screen to a pleasant blue background when it detects no signal available if turned on.

1. **Press the MENU/SELECT button** on the remote control to show the on-screen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the BLUE MUTE control is highlighted.
5. **Press the CURSOR RIGHT or LEFT button** to toggle the control ON or OFF.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.





BLUE MUTE OFF
"Snowy" Picture

BLUE MUTE ON
Pleasant Blue Screen

How to Set the Sleep Timer Control

Have you ever fallen asleep in front of the TV, only to have it wake you up at two in the morning with a test pattern sound screeching in your ears? Well, your TV can enable you to avoid that discomfort by automatically turning itself off. With the Sleep Timer feature, you can set a timer to automatically switch the TV OFF after a period of time you choose (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes).

1 **Press the SLEEP button** on the remote control. The SLEEP timer onscreen display will appear in the upper part of the screen.

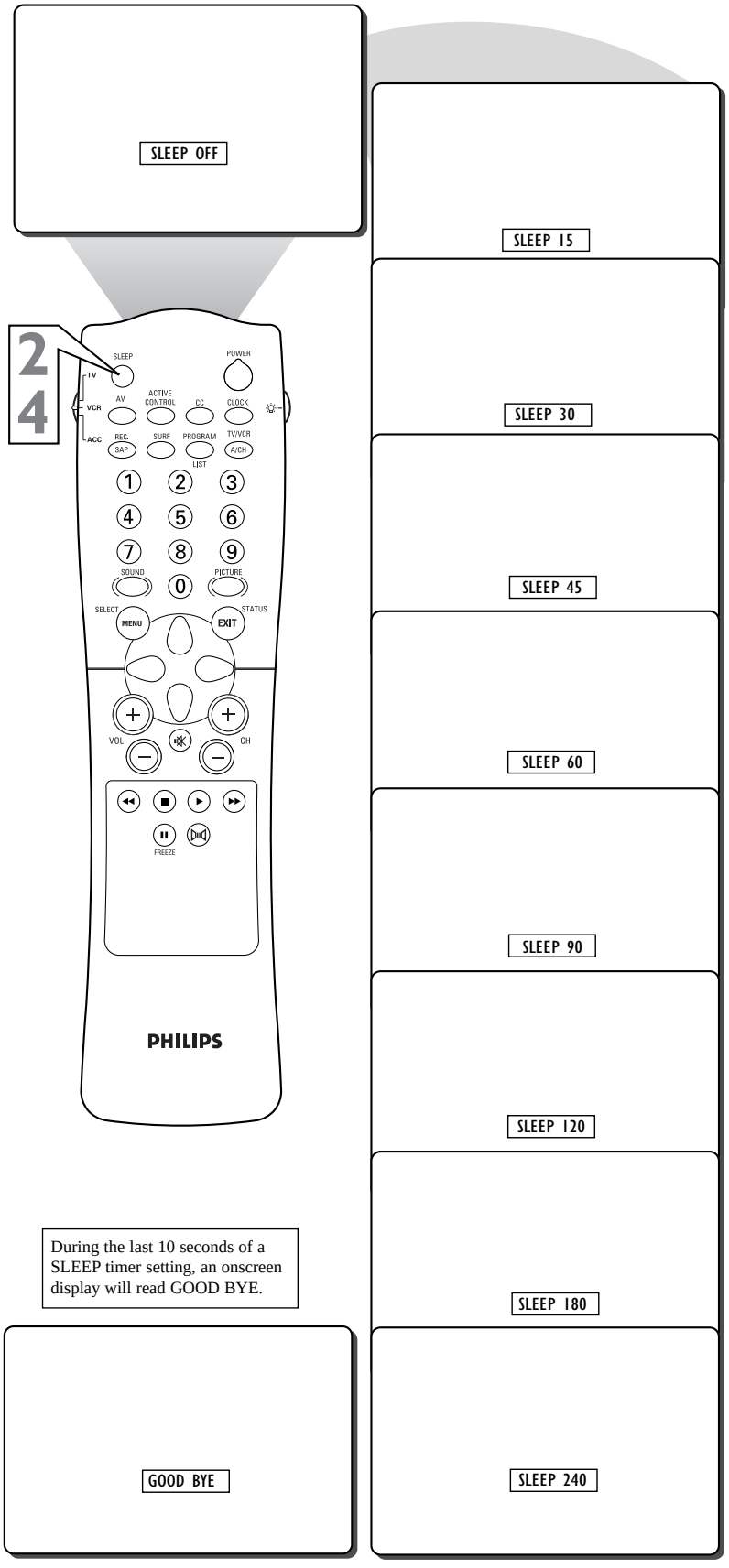
2 **Within five seconds, press the SLEEP button** repeatedly to pick the amount of time (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes) before the TV will turn itself off.

An onscreen countdown will appear during the last minute before the TV shuts itself off.

Helpful Hint

To see how many minutes remain before the TV shuts itself off, press the STATUS/EXIT button.

A Sleep Timer setting can be cancelled by pressing any button during the last minute of the operation.



How to Use the Freeze Control

Have you ever wished you could freeze the picture on the television broadcast to write down a special telephone number or to capture a needed address? Your television will allow you to do just that with the press of just one button on the remote control.

1 With a signal on the television screen, simply **press the FREEZE button** on the remote control to stop the picture at any given moment.

The screen will read **"FREEZE ON"** momentarily and the picture frozen on the screen**.**

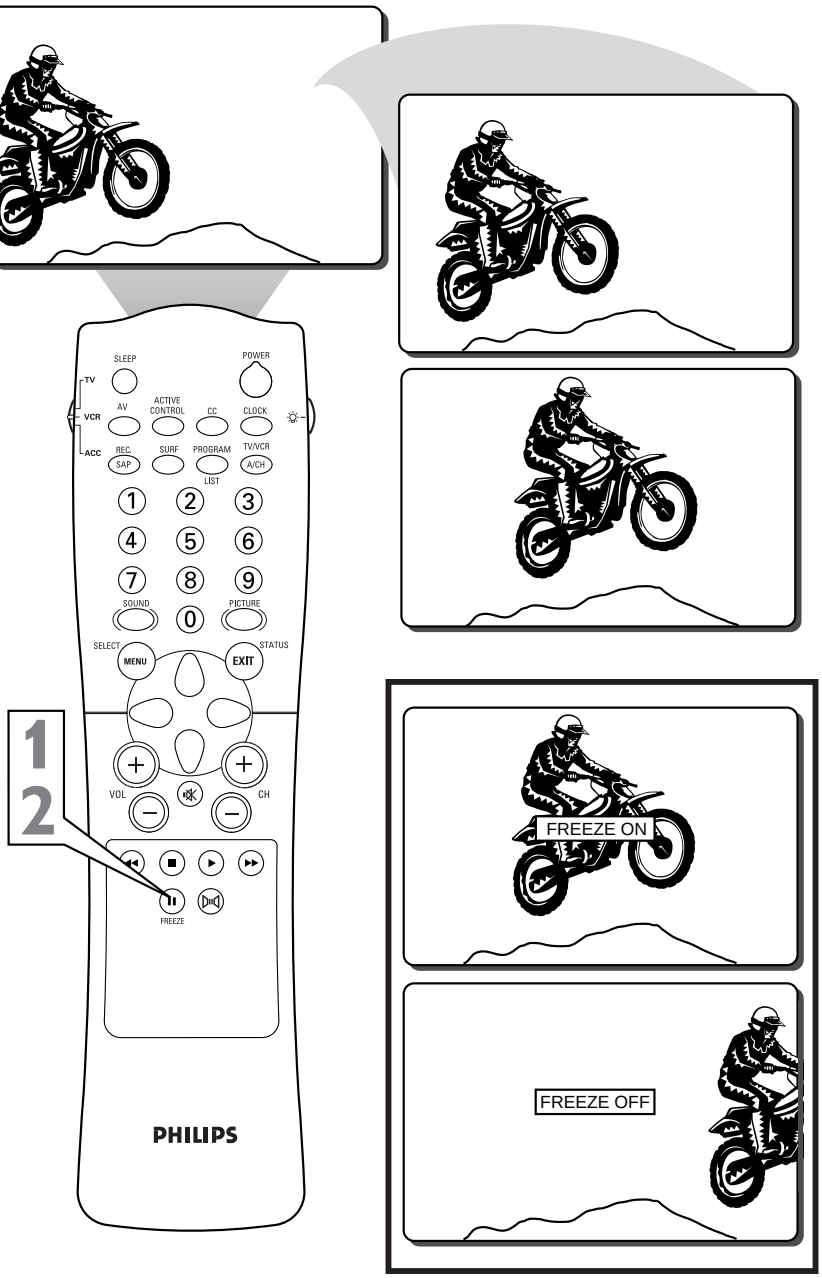
2 **Press the FREEZE button** on the remote control again to resume normal viewing.

The screen will read **"FREEZE OFF"** momentarily while the television displays a normal moving picture again**.**

Helpful Hint

After freezing a picture on the screen, when the FREEZE control is turned OFF, the normal signal programming will be shown at it's present time. The signal that was being shown while the picture was frozen will not be viewable.

If the FREEZE button is pressed when the AV4 Inputs (AV4 Channel) is tuned, the screen will read "FREEZE NOT AVAIL."



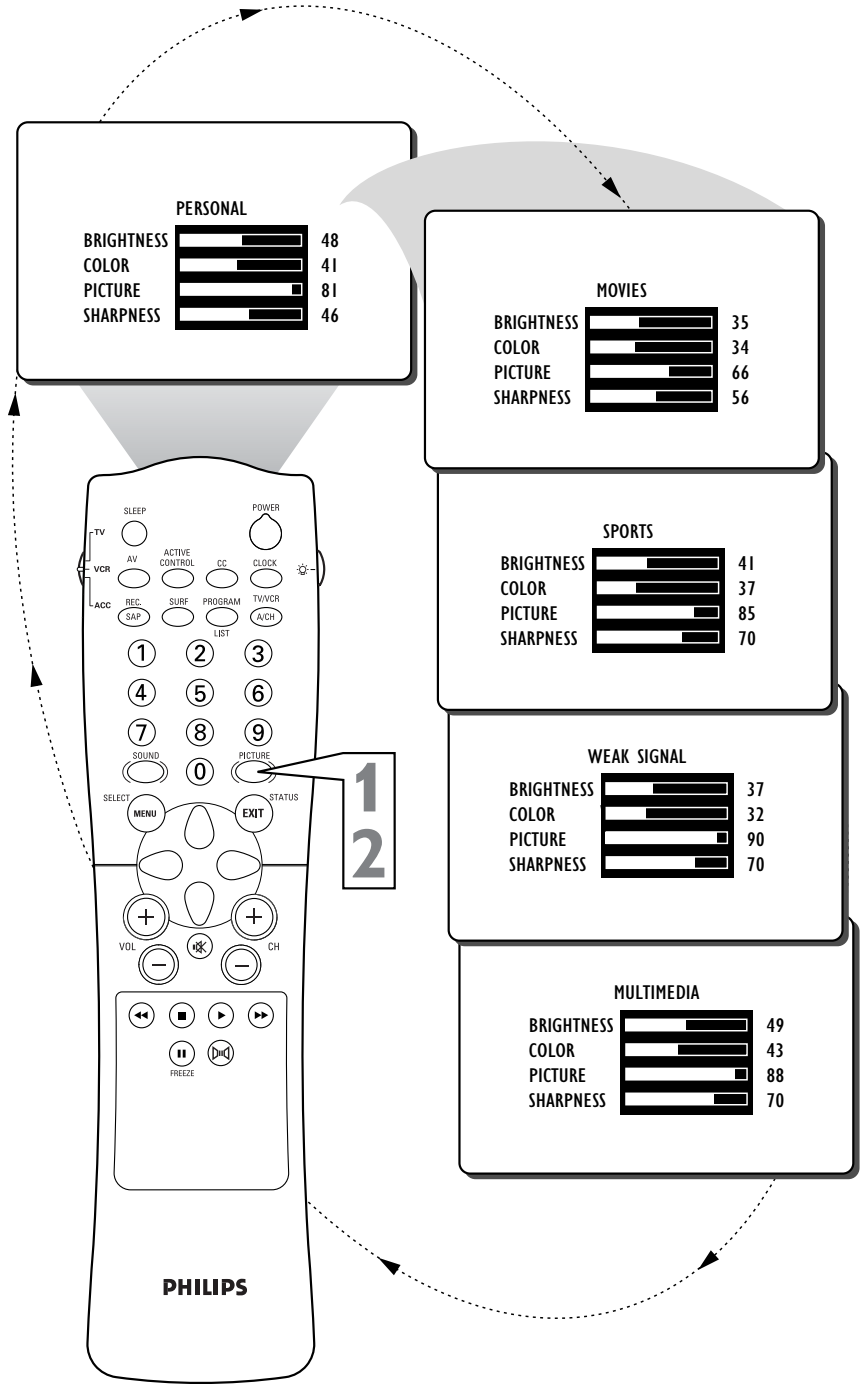
How to Use the AutoPicture™ Control

Whether you're watching a movie or a video game, your TV has automatic video control settings that will match with your current program source or content. AutoPicture™ quickly resets your TV's video controls for a number of different types of programs and viewing conditions that you may have in your home. The Movies, Sports, Weak Signal, and Multimedia AutoPicture™ controls have been preset at the factory to automatically adjust the TV's brightness, color, picture, sharpness, tint, and color temperature levels. The Personal AutoPicture™ settings are the ones that you made through the PICTURE options within the onscreen menu

1. **Press the PICTURE button** on the remote control. The current AutoPicture™ setting will appear in the middle of the screen.

2. **Press the PICTURE button repeatedly** to select either PERSONAL, MOVIES, SPORTS, WEAK SIGNAL, or MULTIMEDIA picture settings.

NOTE: The PERSONAL setting and the PICTURE options within the onscreen menu are the same. This is the only option in AutoPicture™ that can be changed. To adjust these settings, use the PICTURE options within the onscreen menu. All other settings are set up at the factory during production and cannot be adjusted.



NOTE: The values shown in the diagram above are sample values only. Your television's values may vary and display different numbers.

How to Use the AutoSound™ Control

AutoSound™ allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls (Voice, Music, and Theatre) enable you to tailor the TV sound so as to enhance the particular program you are watching. Follow these steps to select any of the options.

1 **Press the SOUND button** on the remote control. The current AutoSound™ setting will appear in the middle of the screen.

2 **Press the SOUND button repeatedly** to toggle among the four settings: PERSONAL, VOICE, MUSIC, or THEATRE.

Remember, only the PERSONAL control can be changed by the viewer. This changes the settings in the main onscreen menu's SOUND controls

Helpful Hint

AutoSound™ works only with the programs coming through the ANTENNA/CABLE (ANT) input on the rear of the TV (RF audio). It will not control the sound levels for the external connections.

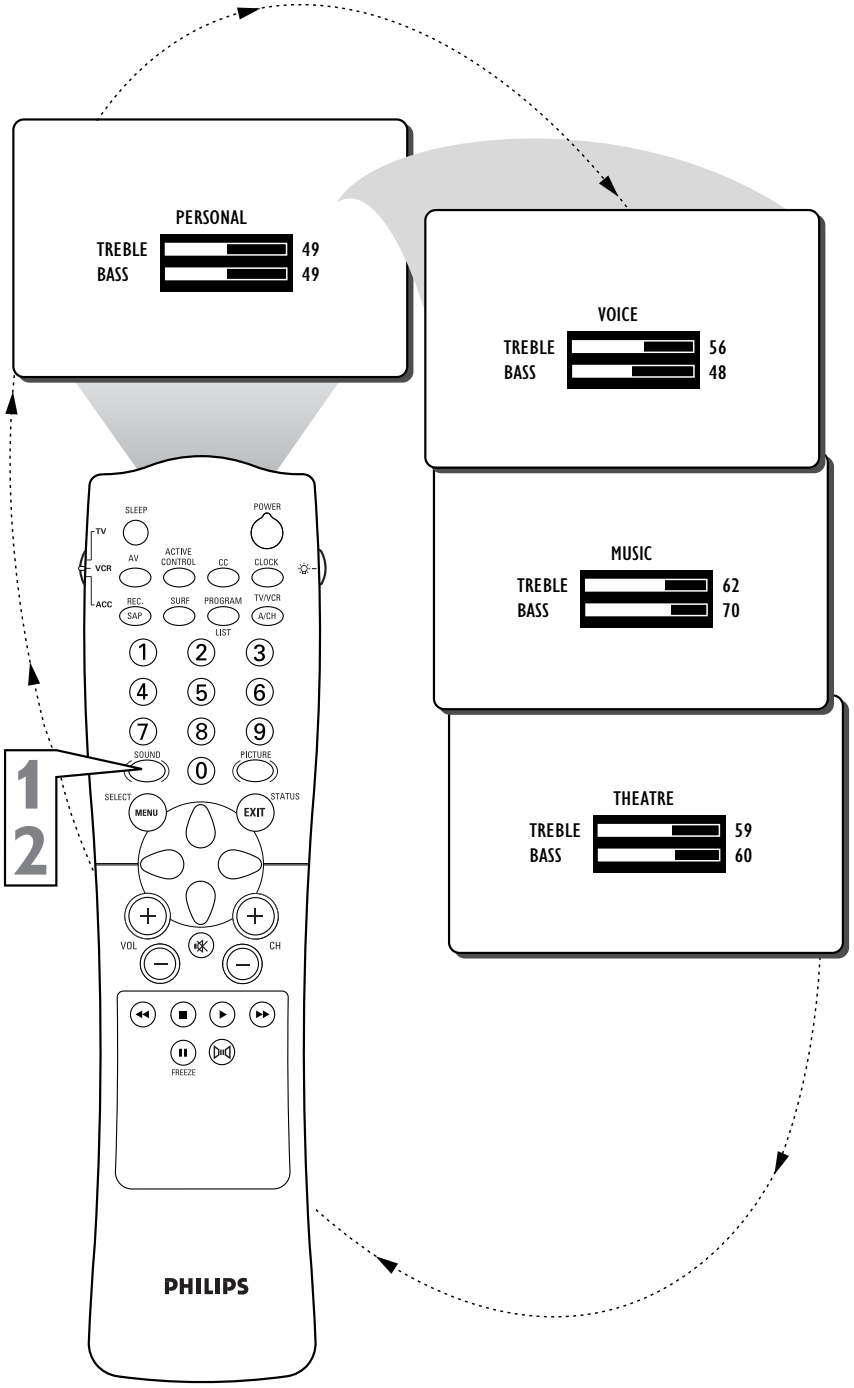
☑ *Check It Out*

PERSONAL – presents the TV's sound according to the settings you make within the sound menu.

VOICE – brings voices to the forefront and emphasizes them. Moves music to the background.

MUSIC – emphasizes music over voices.

THEATRE – provides a balance between voices and music.



NOTE: The values shown in the diagram above are sample values only. Your television's values may vary and display different numbers.

How to Use Surf Control (and Alternate Channel)

A list or series of previously viewed channels can be selected with the SURF button on your remote control. With this feature, you can easily switch between different TV channels that currently interest you. The SURF control allows you to set up to ten channels in its quick viewing list.

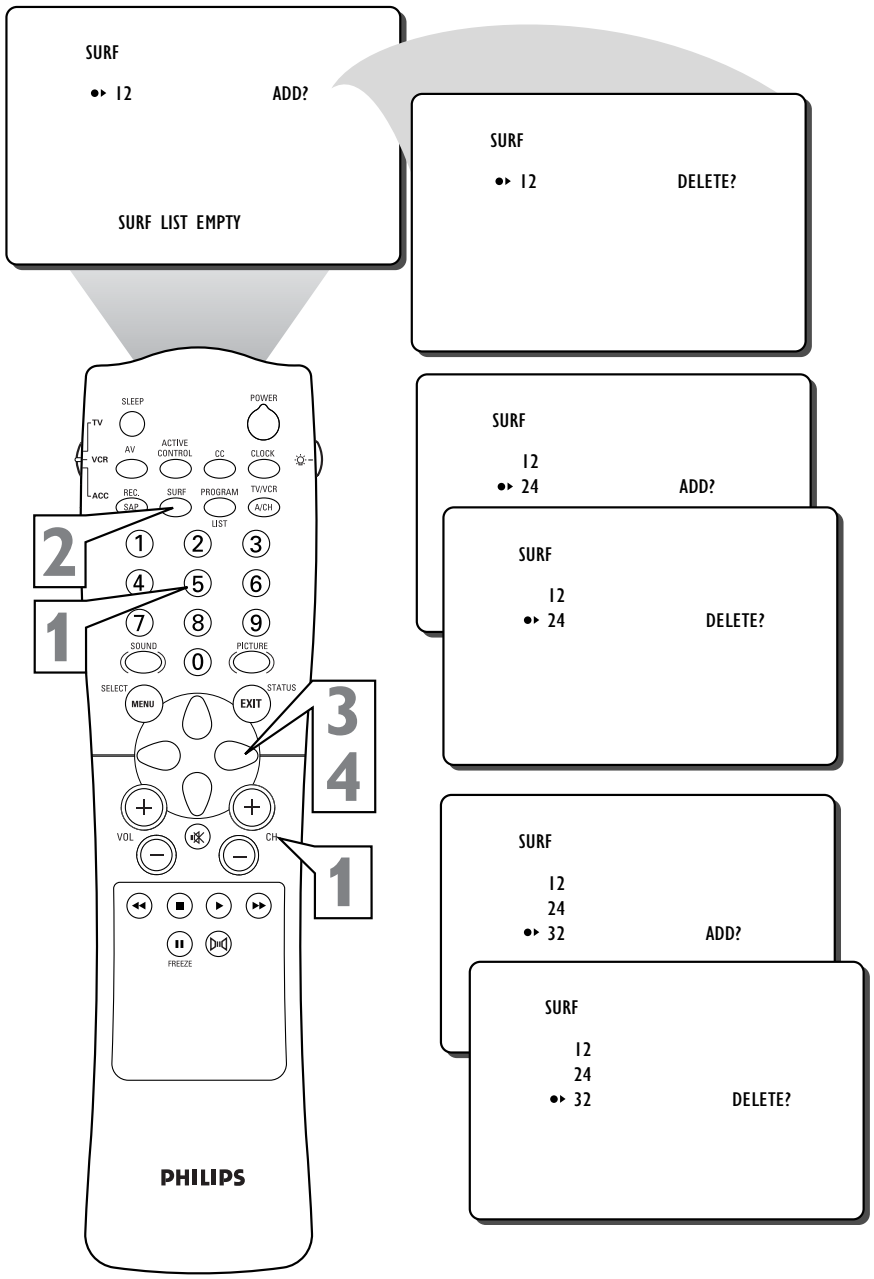
1 **Press the CHANNEL(+) or (–) button** (or the numbered buttons) to select a channel to add to the SURF list.

2 **Press the SURF button** on the remote control. The onscreen display may read, "SURF LIST EMPTY." The number of the current channel will be shown with "ADD?" to the right.

3 While the SURF list message or the SURF channel list appears on the screen, **press the CURSOR RIGHT button** to add the present channel to the SURF list.

4 If you want to delete the present channel from the SURF list, **press the CURSOR RIGHT button** again.

Repeat steps 1 through 3 to add more channels (up to 10) to the SURF list.



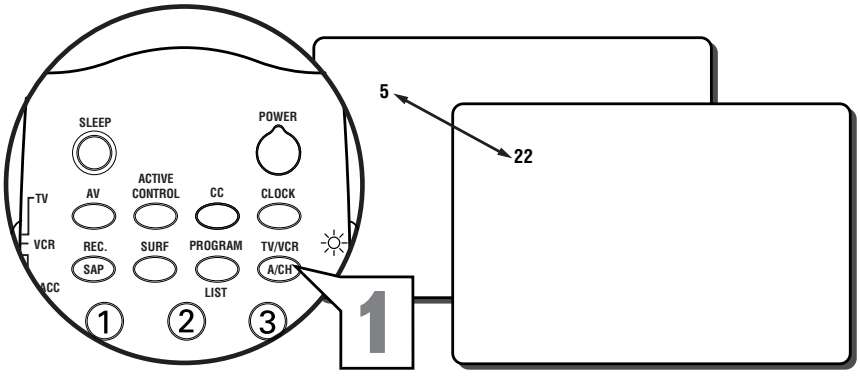
Helpful Hint

Along with regularly programmed channels, the external video source connections can be added to the SURF list. This means that the AV1, CVI, AV2, AV3, and AV4 channels can be added to your SURF list. Just tune to their channel and use the same procedure described on this page.

Alternate Channel Button

Your remote also has an A/CH (Alternate Channel) button. Pressing this button will toggle between the current and one previous channel.

1 **Press the A/CH button** toggle between the present channel and the last previously viewed channel.



USING THE REMOTE WITH ACCESSORY DEVICES - DIRECT ACCESS

Your remote control is capable of working your TV and many other devices that respond to infrared remote control commands, such as VCRs, cable boxes, satellite systems, and DBS. Your remote may be already, as is, to work an accessory device, or you may need to use one of the methods ("Code Entry" or "Search") explained on pages 47 and 48.

First, try this simple test to see if your TV remote control will give you direct access to the accessory device's functions, or if you will need to try another method in order to set up your TV remote control for that capability.

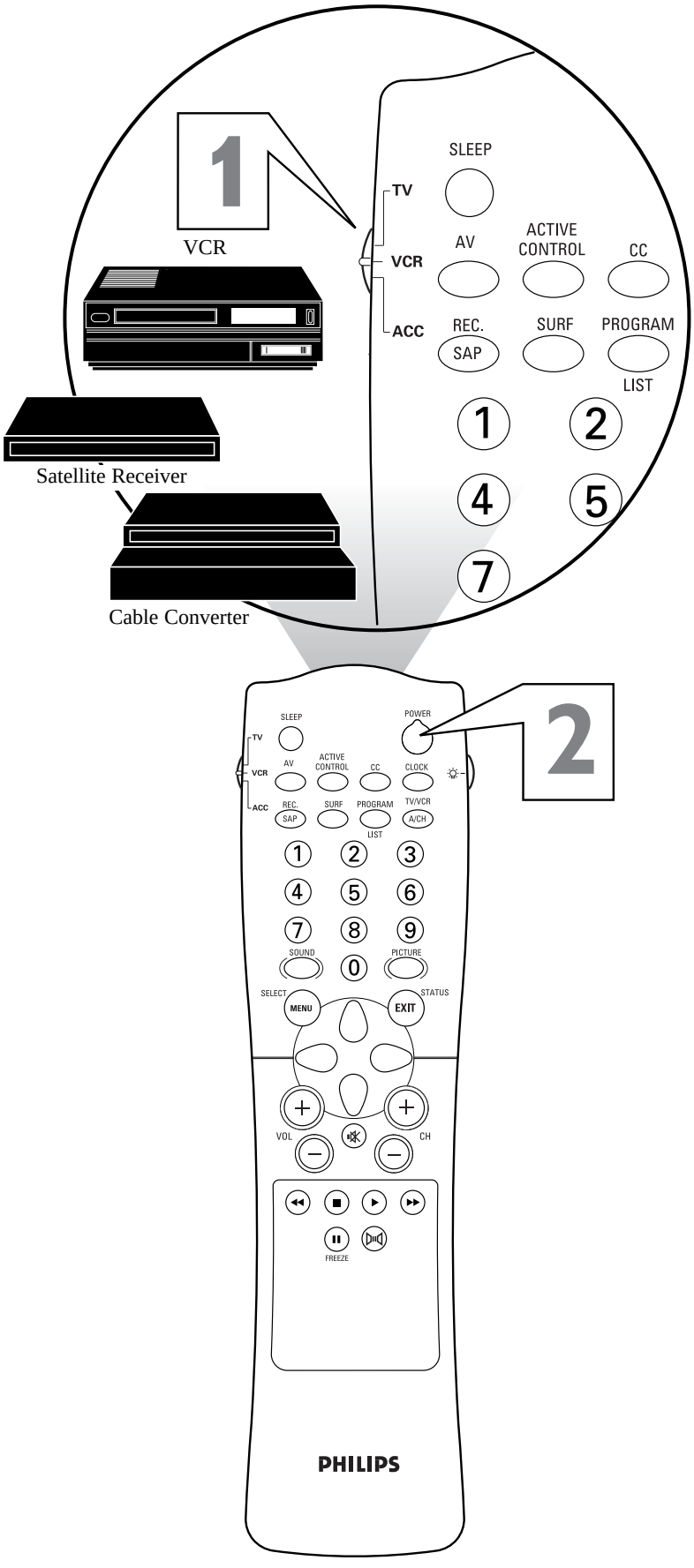
1 **Place the TV/VCR/ACC mode switch** in the proper position.

2 **Point the remote control** at the remote sensor window of the accessory device and press the POWER button.

3 Does the remote control turn the device ON?

If YES, stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.

If NO, go to the next page to try the Code-Entry method.



HELPFUL HINT

It is recommended that you use Philips brand external accessory devices with your Philips television to insure proper remote control functions. If you are using Philips brand accessory devices, your remote control should be ready to use with these devices.

USING THE REMOTE WITH ACCESSORY DEVICES - CODE ENTRY

Follow these simple steps to enter a three-digit Accessory Device Code Number that will allow you to use your TV remote to work the functions of an accessory device. Please read through the steps once before performing them.

1. **Place the TV/VCR/ACC switch in the proper position and look up a three-digit Accessory Device Code Number for the accessory device (found on pages 49-50) whose functions you want to work with your TV's remote control.**

2. **Press the REC(ord)/SAP button** on the remote control and release.

3. **Press the SOUND button** on the remote within 30 seconds, then release.

4. **Enter the three-digit Direct-Entry Code Number** for your desired device. The remote is now ready to send commands to the unit.

5. **Point the remote** at the remote sensor window of the device. Then press the POWER button on the remote to turn the unit ON.

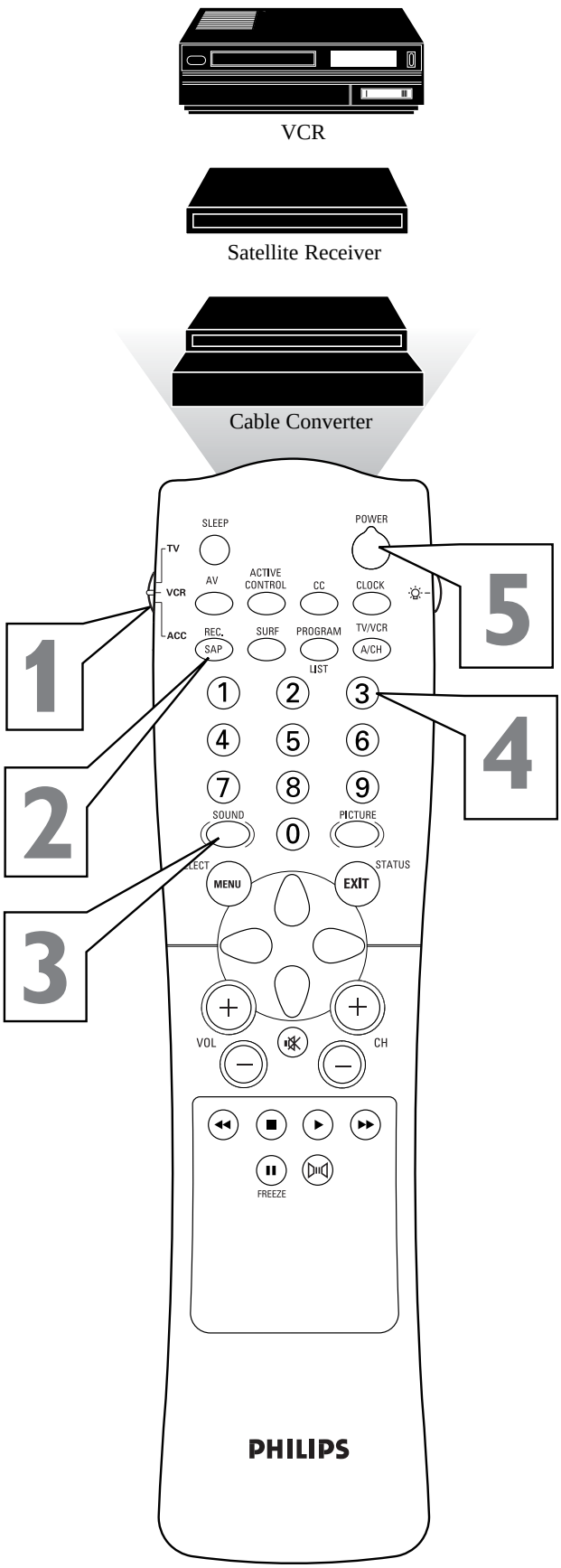
NOTE: If the process just explained doesn't work the first time, repeat the same Accessory Device code number.

If after a second try the TV remote control does not operate your accessory device, see if other three-digit Accessory Device Code Numbers are shown for your device on the list pages 49-50 and repeat the steps above using a new number.

If after repeated attempts this method does not work for you, go to the next page and follow the steps for using the Search method to set up your remote control.

HELPFUL HINT

It is recommended that you use Philips brand external accessory devices with your Philips television to insure proper remote control functions. If you are using Philips brand accessory devices, your remote control should be ready to use with these devices.



USING THE REMOTE WITH ACCESSORY DEVICES - SEARCH

Follow these simple steps to have your TV remote search for the code it needs to work the functions of your accessory device. Please read through the steps once before performing them.

***NOTE:** The Search method works only with devices equipped with channel display indicators or channel display capability.*

1 **Press the POWER button** on the device your are attempting to program to turn it ON.

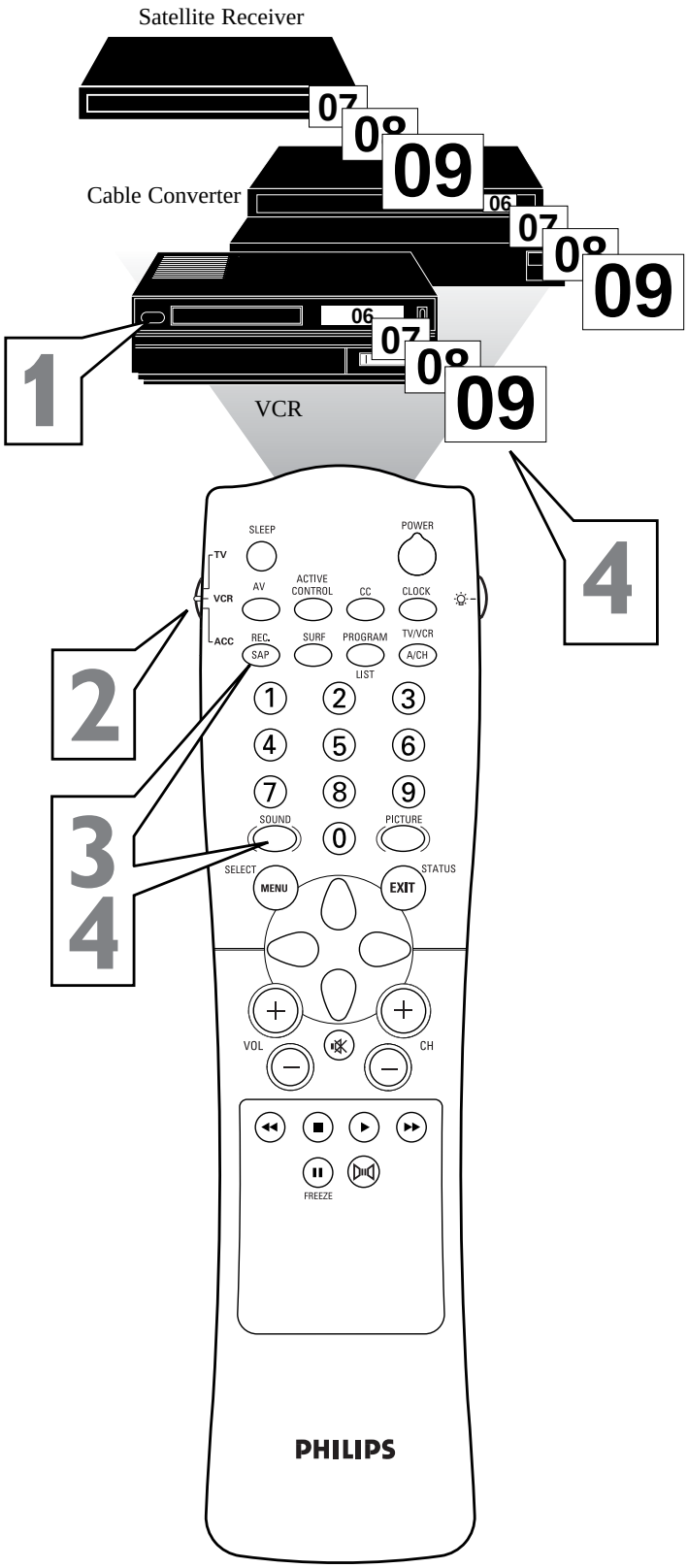
2 **Slide the TV/VCR/ACC mode switch** to the VCR position if you're setting up a VCR or to the ACC position if you're setting up any other accessory device.

3 **Press the REC(ord)/SAP and SOUND buttons simultaneously** and hold them down. The device will begin to change channels after the remote identifies the correct code.

4 **When the channels start to change, release the REC(ord)/SAP and SOUND buttons.**

NOTE: Don't let the device scan up more than five channels. If you do, the remote control may pass up the correct code, and another two-minute search cycle will have to be done.

If no channel change happens within two minutes, repeat steps 1–4. Should a channel change still not occur, the remote will not work the desired device.



HELPFUL HINT

Don't let the device scan up more than five channels. If you do, the remote may pass up the right code, and another two-minute search cycle will have to be done.

If no channel change happens within two minutes, repeat steps 1–4. Should a channel change still not occur, the remote control will not work the desired device.

It is recommended that you use Philips brand external accessory devices with your Philips television to insure proper remote control functions. If you are using Philips brand accessory devices, your remote control should be ready to use with these devices.

CODE-ENTRY CODE LIST FOR ACCESSORY DEVICES

VCR	REMOTE CODE NO.
Admiral	.048
Advantz	.358
Adventure	.000
Aiko	.278
Aiwa	.000, 037, 307, 348, 352
Akai	.041, 049, 053, 061, 106, 315
Alba	.352
American High	.035
Amstrad	.325, 332
Asha	.240
Audiovox	.037
Baird	.107
Beaumark	.240
Bell & Howell	.104
Blaupunkt	.003, 006, 154
Brandt	.187, 320, 321
Broksonic	.121, 184, 211, 295, 361
Bush	.352
CCE	.072, 278
Calix	.037
Canon	.035
Capehart	.020
Carver	.081, 146
Citizen	.037, 278
Colt	.072
Combitach	.352
Craig	.037, 047, 072, 240, 271
Curtis Mathes	.035, 041, 060
Cybermax	.051, 240
Daewoo	.020, 045, 276
Daytron	.020
Denon	.042
Dynatech	.000
Electrophonic	.037
Emerex	.032
Emerson	.000, 002, 036, 037, 043, 061, 068, 088, 121, 164, 208, 209, 211, 212, 278, 295, 361, 479
Ferguson	.107, 320, 321
Fisher	.047, 054, 066, 104
Fuji	.033, 035
Funai	.000
GE	.035, 060, 065, 202
Garrard	.000
Go Video	.232, 279, 432
Gold Star	.037, 038
Gradiente	.000, 406
Grundig	.003, 007, 195, 347
HI-Q	.047
Harley Davidson	.000
Harman/Kardon	.038, 075
Harwood	.068, 072
Headquarter	.046
Hinari	.004, 352
Hitachi	.000, 004, 041, 042, 065, 105, 168, 235
Ingersol	.004
JVC	.008, 041, 067, 208, 384, 486
Jensen	.041
KEC	.037, 278
KLH	.072
Kenwood	.038, 041, 067, 384
Kodak	.035, 037
LXI	.037
Lloyd's	.000, 206
Loewe	.004
Logik	.004, 072
MEI	.035
MGA	.043, 061
MGN Technology	.240
MTC	.000, 240
Magnavox	.000, 035, 081, 146, 181
Marta	.037
Matsui	.004, 348, 352
Matsushita	.035, 162, 454
Memmorex	.307
Memorex	.000, 035, 037, 039, 046, 047, 048, 104, 240, 266, 307
Metz	.003, 347
Minolta	.042, 105
Mitsubishi	.043, 061, 067, 075, 173, 443
Motorola	.035, 048
Multitech	.000, 072
NAD	.058
NEC	.036, 040, 041, 067, 104
Nikko	.037
Nikon	.034, 253
Noblex	.240
Nordmende	.297, 320, 321
Okano	.346
Olympus	.035, 226
Optimus	.037, 048, 058, 104, 162, 432, 454
Optonica	.062
Orion	.004, 295, 348, 352, 479
Panasonic	.035, 077, 162, 225, 226, 378, 454
Penney	.035, 037, 038, 040, 042, 065, 105
Pentax	.042, 065, 105
Philco	.035
Philips	.035, 062, 081, 110, 403
Pilot	.037
Pioneer	.058, 067
Portland	.020
Profax	.322
Profitronic	.240
Protec	.072
Pulsar	.039, 051
Quarter	.046
Quartz	.046
Quasar	.035, 077, 162, 454
RCA	.042, 060, 065, 077, 105, 106, 149, 202
Radio Shack	.000, 037
Radix	.037
Randex	.037
Realistic	.000, 035, 037, 045, 047 048, 062, 066, 104
Ricoh	.034, 253
Runco	.039
SEG	.322
SEI	.004
STS	.042
Saba	.297, 320, 321
Saisho	.004
Salora	.075
Samsung	.045, 051, 053, 240
Sanky	.039, 048
Sansui	.000, 041, 067, 271
Sanyo	.046, 047, 104, 240, 268
Saville	.352
Scott	.043, 045, 121, 164, 211, 212
Sears	.000, 035, 037, 042, 046, 047, 054, 066, 104, 105
Sharp	.046, 062
Shintom	.072
Shogun	.051, 240
Shoral	.004
Siemens	.003
Singer	.072
Sinudyne	.004
Sony	.000, 011, 022, 032, 033, 034, 035, 253, 275
Sunkel	.348
Sunpak	.253
Sylvania	.000, 035, 043, 081, 103, 110
Symphonic	.000
TMK	.036, 208, 240
Tatung	.041
Teac	.000, 041
Technics	.035, 162
Teknika	.000, 035, 037
Telefunken	.187, 320, 321
Tansal	.322
Thomas	.000
Thomson	.320
Toshiba	.043, 045, 066, 212, 366
Totavision	.037, 240
Towada	.322
Unitech	.240
Universum	.325
Vactor	.045
Vactor Research	.038, 040
Video Concepts	.040, 045, 061
Videosonic	.240
Wards	.000, 035, 042, 047, 048, 060, 062, 072, 081, 149, 161, 212, 240
XR-1000	.000, 035, 072
Yamaha	.038
Zenith	.000, 033, 034, 039

CABLE CONVERTOR	REMOTE CODE NO.
ABC	.001, 003, 007, 008, 011, 013, 014, 017
Aliegio	.153
Andover	.544
Antronix	.022
Archer	.022, 153
Balcor	.056
British Telecom	.105
Cable Star	.056
Cablatenna	.022
Cabletime	.161, 271, 377, 448
Cableview	.022
Century	.153
Citizen	.153
Clyde	.086
Colour Voice	.025, 031
Comtec	.274
Comtronics	.040
Contec	.019
Cryptovision	.600
Deceat	.423

CODE-ENTRY CODE LIST FOR ACCESSORY DEVICES

CABLE CONVERTOR	REMOTE CODE NO.
Eastern	002, 274
Everquest	015, 040
Filmnet	443
Focus	400
France Telecom	451
GC Electronics	056
GEC	086
Ganard	153
Gemini	015, 070, 242
General Instrument	011, 276, 476
Gold Star	040
Grundig	529
Hamlin	009, 020, 034, 259
Hitachi	011
Hytex	007
Jasco	153
Jerrold	003, 011, 012, 014, 015, 024, 276, 476
M.N.E. T.	443
MNet	443
Macon	033
Magnavox	027, 032, 334
Memorex	000
Movie Time	063
NSC	063, 070
Oak	007, 019
Optimus	021
Panasonic	000, 021, 107
Paragon	000
Philips	025, 027, 031, 153, 242, 290, 334
Pioneer	533, 753
Popular Mechanics	400
Pulsar	000
RCA	021
Radio Shack	015
Recoton	400
Regal	020, 259
Regency	002
Rembrandt	011, 070
Runco	000
SL Marx	040
Salora	382
Samsung	040
Satbox	375
Scientific Atlanta	008, 017, 477
Signal	015, 040
Signature	011
Sprucer	021
Star Sight	542
Starcom	003, 015
Stargate	015, 040
Starquest	015
Sylvania	001
TV85	063
Tandy	258
Tele+1	443
Teleservice	281
Teleview	040
Texscan	001
Timeless	274
Tocom	012, 013, 059
Toshiba	000
Tudl	286
Tusa	015
Unike	022, 153
United Artists	007
United Cable	003
Universal	022, 056, 153, 191
Videoway	250
Viewstar	027, 063, 258
Visi Cable+	461
Westminster	105
Wolsey Gaine	544
Zenith	000, 054, 525
Zentek	400

DBS	REMOTE CODE NO.
Alpha Star	772
Echostar	775
HTS	775
Hitachi	819
Hughes Network System	749
Jerrold	627
Magnavox	722, 724
Memorex	724
Panasonic	701
Philips	722, 724
Primestar	627
RCA	566
Sony	639
Toshiba	790
Uniden	724

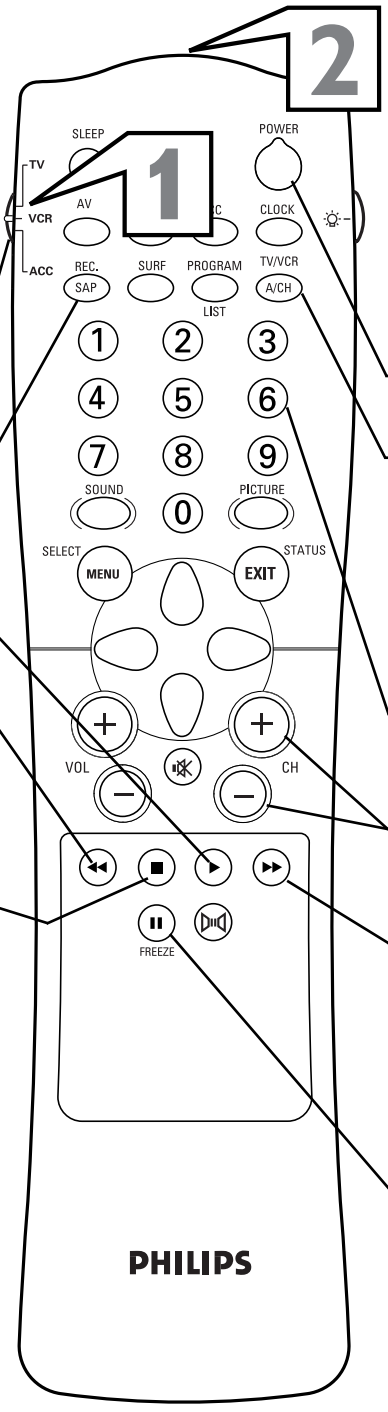
SATELLITE	REMOTE CODE NO.
AST	351
Akai	515
Alba	352, 515, 613
Aldea	288
Amstrad	080, 252, 345, 461, 509, 689
Ankaro	220, 288, 369
Anitron	183
Armstrong	243
Astra	108
Avalon	396
Axis	369
BT	515, 668
Beko	189
Best	369
Boca	243, 513
Bush	067
Cambridge	344, 515
Channel Master	362
Commlink	288
Connexions	396
Conrad	607
Crown	243
DDC	362
DNT	396
Echostar	396
Farguson	067, 183, 189, 336
Fidelity	252
Finiux	108, 397
Fuba	369, 396
G-Bat	183
Galaxis	286
Gooding	571
Grundig	173, 189, 571, 750
Hinari	183
Hirschmann	397, 573
Houston	668
Huth	220, 243, 268
ITT	108
Intervision	592
JVC	515, 571
Kathrein	092, 504, 622, 658
La Sat	513, 607
Lennox	592
Lupus	369
Luxor	108, 573
Manhatten	592
Maspro	092, 336, 750
Matsui	571
Mediamarkt	248
Minerva	571
Mintec	576
Morgan's	243, 513
Newhaus	220
Nikko	360, 713
Nokia	108, 397, 573
Nordmende	362
Orbitech	501
Pace	067, 183, 336, 455, 791
Paliadium	571
Palsat	501
Philips	200, 292, 571, 750
Phonotrend	288, 592
Plasmatic	442
Proset	288
Quadral	362, 628
RFT	220, 288
Radix	396
SAT	351, 461
SEG	369
Saba	336
Salora	108
Satec	183
Schwaiger	183, 504
Seemann	396, 578, 626
Skymaster	288, 626
Sony	704
Star Trak	421
Strong	421
Sunstar	513
Tantec	336
Techni Sat	262, 501
Teleka	243, 613
Tonna	668
Triad	351
Universum	571
Vtech	351
Wisi	351, 396

DVD	REMOTE CODE NO.
Kenwood	534
Mitsubishi	521
Panasonic	490
Philips	539
Pioneer	550
RCA	522
Sony	552
Toshiba	503

REMOTE CONTROL VCR SPECIFIC BUTTONS

When using the TV remote control with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method).

1. **Set the TV/VCR/ACC mode switch to VCR** on the remote control.
2. **Point the top of the remote** toward the front of the VCR (remote sensor window) when pressing the buttons.



VCR System Switch
Set in the VCR position to send remote commands to the VCR.

Record Button
Hold the REC(ord)/Sap and PLAY ▶ buttons down to begin a VCR recording.

Play Button ▶
Press to begin playback of a videotape.

Rewind Button ◀◀
Press to rewind tapes. For some VCR's, the STOP button may have to be pressed first, then REWIND. In playback mode, hold down the button to view the picture moving rapidly in reverse.

Stop Button ■
Press to stop the motion of a tape in playback, rewind, fast forward, and so on.

Power Button
Press to turn the VCR ON and OFF.

TV/VCR Button
Press while in the VCR mode (the VCR indicator on the front of the unit will light) to view the playback of a tape. Press again to place in the TV position (the VCR indicator light will go off) to view one program while recording another program.

Number Buttons
Press buttons for the direct selection of VCR channels.

Channel + and – Buttons
Press to scan up or down through the VCR channel numbers.

Fast Forward Button ▶▶
Press to rapidly advance the tape. For some VCRs, you may need to press the STOP button first, then the FAST FORWARD button. In playback mode, hold the button down to view the picture moving rapidly in the forward direction.

Pause Button ⏸
Press to temporarily stop the tape during a playback or recording. Press again to release Pause.

HELPFUL HINT

Remember, the VCR buttons on the remote will not operate your VCR if those features are not found on your VCR remote control.

NOTE: All VCR functions (particularly Search, Rewind, Fast Forward, etc.) will operate the same as with the original VCR remote control provided with the VCR.

Troubleshooting

No Power
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Check that the outlet is not on a wall switch.
- Be sure the fuse is not blown on the AC power strip, if one is being used.

No Picture
- Check antenna connections. Are they properly secured to the TV's ANT 75Ω plug?
- Check the TUNER MODE control for the correct tuner setting.
- Try running the Auto Program feature to find all available channels.
- Press the AV button on the remote to make sure the correct signal source is selected.

No Sound
- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- If you're attempting to hook up auxiliary equipment, check the audio jack connections located on the front of the TV.

Remote Does Not Work
- Check the batteries. If necessary, replace them with AA Heavy Duty (Zinc Chloride) or Alkaline batteries.

Remote Does Not Work Continued
- Clean the remote control and the remote control sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Be sure the fuse is not blown on the AC power strip, if one is being used.
- Check to be sure the TV outlet is not on a wall switch.

TV Displays Wrong Channel or No Channels Above 13
- Repeat channel selection.
- Add the desired channel numbers (using the CHANNEL EDIT control) into the TV's memory.
- Check to be sure the TUNER MODES are set to the CABLE option and run the Auto Program feature to find all available channels.

TV Displays white lines in letterbox when viewing a DVD disc
- Some DVD Discs are encoded with as much as 30% more video information to give the best possible picture quality. With the DVD Player in the 16:9 picture format, the playback of this type of disc with extra video information, can produce a number of small white lines in the upper portion of the black letterbox area. With some of these discs, this situation is unavoidable and it does not require a service call.

Care and Cleaning

WARNING Concerning Stationary Images on the TV Screen:

Do not leave stationary or letterbox images on screen for extended periods of time. This can cause uneven picture-tube aging.

Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Be careful not to leave nonmoving images on screen for extended periods of time, or to display the same images on screen too frequently, because subtle ghost images can be left on the picture tubes. Sources of stationary images may be DVD disks, laser disks, video games, CD-i disks, videotapes, digital television boxes, broadcast channels, cable channels, satellite channels, and others. **Here are some examples of stationary images (this is not an all-inclusive list; you may encounter others in your viewing):**

- **DVD menus—**listings of DVD disk content
- **Letterbox black bars—**shown at the top and bottom of the TV screen when a wide screen (16:9) movie is viewed on a TV with standard (4:3) aspect ratio.
- **Video-game images and scoreboards**
- **Television station logos—**present a problem if they are bright and stationary; moving or low-contrast graphics are less likely to cause uneven aging of the picture tube
- **Stock-market tickers—**presented at the bottom of the TV screen
- **Shopping channel logos and pricing displays—**bright and shown constantly or repeatedly in the same location on the TV screen.

Placement of the TV
- To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot; for example, in direct sunlight or near a heating appliance.
- Be sure to allow a free flow of air to and from the perforated back cover of the set.

Cleaning
- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- Regularly dust the TV with a dry, nonscratching duster to keep the TV clean.
- When cleaning the TV, take care not to scratch or damage the screen surface. Avoid wearing jewelry or using anything abrasive. Do not use household cleaners. Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool, clear water and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the back cover of the set.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

Glossary of Television Terms

Active Control • Active Control continuously measures and corrects the incoming signals to provide the best picture possible.

Alternate Channel • Allows you to toggle between the last two channels viewed by pressing the A/CH button on the remote control.

Audio/Video Inputs • Jacks (standard RCA), located on the back of the TV, used for external accessory devices. These jacks are designed to receive higher picture resolution and offer sound-connection options.

Auto Programming • When activated, this feature scans for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

Channel Edit • The feature that allows you to add or delete channels from the list of channels stored in the TV's memory.

Closed Captioning • The broadcast standard feature that allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, Closed Captioning shows dialogue and conversations while a TV program is in progress.

Coaxial Cable • A single solid wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75-ohm input found on the television or VCR.

Component Video Inputs • Inputs that allow the separate reception of blue, red, and luminance signals. These inputs provide the highest possible color and picture resolution in the playback of digital signal-source material, such as the kind available from DVD players.

Composite Video Input • An input in which all the components required for displaying the onscreen image are combined in one signal.

High-definition Television (HDTV) • High-resolution digital television.

Incredible Stereo (or Surround) • False acoustic management of the audio signal that produces a dramatic expansion of the wall of sound that surrounds the listener and heightens overall viewing pleasure.

Menu • An onscreen list of feature controls available for you to adjust or set.

Onscreen Displays (OSD) • The wording or messages generated by the television (or VCR) to help you with specific feature controls (color adjustment or programming, for example).

Remote Control Sensor Window • The window or opening found on the television control panel through which infrared remote control command signals are received.

Second Audio Program (SAP) • An additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. A monaural soundtrack included within the recorded or video signal (usually containing a second language translation for the displayed programming).

Status/Exit Button • The remote control function that allows you to quickly confirm what channel number you are watching. Status/Exit can also be used to clear the television of onscreen displays or information. You can use Status/Exit rather than having to wait for the displays to "time out," or automatically disappear from the screen.

S-Video Input • Signal input that allows direct connection of high-resolution video sources, such as a satellite receiver, DVD player, S (Super)-VHS videocassette recorder, or video games. Provides improved picture resolution, sharpness, and clarity.

Tint • TV function that allows you to change the general color balance between cool and warm. Adjust tint according to your personal preference.

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Factory Service Locations

★ Indicates In-Home Service Only
Milwaukee: call Chicago
Cincinnati and Columbus: call Cleveland
Nashville and Chattanooga: call Knoxville
Washington/Baltimore: call Philadelphia
Charlotte: call Atlanta
All Florida locations; call Tampa

• Indicates In-Home/Carry-In Service
Toll-free numbers provided on the next page

NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d`achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product
Please contact Philips at 1-800-661-6162 (French speaking)
1-800-531-0039 (English or Spanish speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile
Veuillez contacter philips á: 1-800-661-6162 (Francophone)
1-800-531-0039 (Anglais ou Espagnol)

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo
Favor de comunicarse con Philips al: 1-800-661-6162 (Francés)
1-800-531-0039 (Inglés o Español)

Factory Service Locations

Quality service is as close as your telephone! Simply look over the list below for the number of a Factory Service Center near you. Your product will receive efficient and expedient carry-in, mail-in, or in-home service, and you will receive peace of mind, knowing your product is being given the expert attention of Philips' Factory Service.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

ATLANTA
Philips Factory Service
550 Franklin Road., Suite F
Marietta, GA 30067
800-273-1501

CLEVELAND
Philips Factory Service
950 Keynote Circle
Brooklyn Heights, OH 44131
800-331-7037

CHICAGO
Philips Factory Service
1279 W. Hamilton Pkwy.
Itasca, IL 60143
800-531-2922

TAMPA
Philips Factory Service
1911 US Highway 301 North, Suite 100
Tampa, FL 33619
800-442-2027

DETROIT
Philips Factory Service
25173 Dequindre
Madison Heights, MI 48071
800-438-1398

KNOXVILLE
Philips Factory Service
One Philips Drive
Knoxville, TN 37914
800-821-1767

SAN FRANCISCO
Philips Factory Service
681 East Brokaw Rd.
San Jose, CA 95112
800-300-9013

DALLAS
Philips Factory Service
415 N. Main Street, #107
Euless, TX 76040
800-952-3254

PHILADELPHIA
Philips Factory Service
352 Dunks Ferry Rd.
Bensalem, PA 19020
800-847-9320

HOUSTON
Philips Factory Service
1110 N. Post Oak Rd., Suite 100
Houston, TX 77055
800-952-3254

LOS ANGELES
Philips Factory Service
20930 Bonita, Ste. V
Carson, CA 90746
800-300-9013

LIMITED WARRANTY

COLOR TELEVISION

90 Days Free Labor

One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube)

This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For 90 days thereafter,* all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

FOR WARRANTY COVERAGE IN CANADA...

Note: Product Warranty coverage may vary between countries where product is distributed by Philips Consumer Electronics Company. In order to receive full and specific warranty details for products sold and serviced in Canada, please contact Philips at:

1-800-661-6162 (from Canada - French Speaking)

1-800-531-0039 (English and Spanish Speaking)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips, P.O. Box 520890, Miami, FL 33152, (402) 536-4171

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